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This publication includes lecture notes of papers presented at the 2000 New Jersey Turfgrass Expo. Publication of these lectures pro-

vides a readily available source of information covering a wide range of topics and includes technical and popular presentations of importance to the turfgrass industry.

This proceedings also includes research papers that contain original research findings and reviews of selected subjects in turfgrass science. These papers are presented primarily to facilitate the timely dissemination of original turfgrass research for use by the turfgrass industry.

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PERFORMANCE OF KENTUCKY BLUEGRASS CULTIVARS AND SELECTIONS IN NEW JERSEY TURF TRIALS

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Kentucky bluegrass (*Poa pratensis* L.) is a hardy, persistent, attractive grass used extensively for turf throughout the northern half of the United States. It is adapted to a wide range of soils and climates, and has extensive rhizomes that provide excellent sod strength and survival. As a result, Kentucky bluegrass is used extensively for soil stabilization and conservation, forage, and turf. Kentucky bluegrass is utilized on more than 35 million acres of pastures in the northeastern and northcentral United States, as well as large areas of Canada and Europe. Kentucky bluegrass is considered a premier lawn grass, contributing to the turf of over 40 million lawns throughout the subarctic, temperate, and subtropical (high altitude) climates of the United States.

Kentucky bluegrass topped the list of fairway grasses for northern golf courses in the early 1900s according to R.A. Oakley (1924). However, after fairway heights were reduced below 0.75 inch, Kentucky bluegrass became less competitive against annual bluegrass invasion and summer patch disease (Dernoeden, 1997). These liabilities, along with slow establishment rates, diminished the popularity of Kentucky bluegrasses for use in fairways, particularly as improved perennial ryegrasses (*Lolium perenne* L.) became available. The recent pandemics of gray leaf spot (caused by the fungus *Pyricularia grisea*), which resulted in severe damage of perennial ryegrass fairways on golf courses, has renewed interest among some turf professionals in the use of Kentucky bluegrasses on roughs and some fairways.

There are three main uses of Kentucky bluegrass: forage, soil conservation, and specialized medium-high maintenance turf such as athletic fields, home lawns, and golf courses. Prior to the release of Merion in 1947, common Kentucky bluegrasses were the predominant type used for turf. The common-type bluegrasses are useful for soil conservation, pastures, and lower maintenance turf. Common-type bluegrasses are adapted to these uses due to early maturity, quick establishment, good stress tolerance, and the ability to survive dry summers in a dormant state. However, these common-type bluegrasses can suffer extensive turf loss from leaf spot and melting out disease (caused by *Drechslera* and *Bipolaris* species) under conditions of close mowing in humid environments. Merion Kentucky bluegrass, discovered by Joseph Valentine in the early 1930s, had better leaf spot resistance and greatly increased the usefulness of Kentucky bluegrass as a turf in regions with a humid, temperate climate. Turf-type Kentucky bluegrasses have a lower, more prostrate growth habit, respond well to higher maintenance regimes, tolerate closer mowing, and have greater resistance to leaf spot diseases than common type bluegrasses.

The facultative apomictic breeding behavior of Kentucky bluegrass contributes to the development of many unique genotypes that are adapted to many different environments. Although apomixis presents a challenge to breeders attempting to improve Kentucky bluegrass, it also provides the opportunity to produce true-to-type seed from superior genotypes with hy-

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brid vigor generation after generation. Kentucky bluegrass cultivars have been developed through a number of approaches that include i) selection of naturalized ecotypes; ii) selection of successful, highly apomictic plants found in old pastures or turfs; iii) blending of highly apomictic single plants (called composites); and iv) selection of single, highly apomictic plants from breeding programs using intraspecific and interspecific hybridization.

Kentucky bluegrass can exhibit poor performance during summer months, especially in the transition zone and southern states, due to heat and drought stress as well as insect and disease pressure. Currently, Rutgers has been utilizing interspecific hybridization for the development of Texas bluegrass (*Poa arachnifera* Torr.) x Kentucky bluegrass hybrids to try to incorporate valuable traits from Texas bluegrass into Kentucky bluegrass. Texas bluegrass, native to Texas and parts of Oklahoma, is a dioecious species that is more tolerant of heat and drought stress than Kentucky bluegrasses. Texas bluegrass x Kentucky bluegrass crosses were made as early as 1908 by George H. Oliver, who noticed a wide variation in first-generation hybrids including plants that were more heat and drought tolerant and more productive than Kentucky bluegrass (Vinall and Hein, 1937). Hybrid evaluation for fertile, highly apomictic offspring with improved performance is currently underway at Rutgers. This breeding strategy of crossing female Texas bluegrass plants with Kentucky bluegrass could expand the adaptation of Kentucky bluegrass through transition zone areas and into southern states where better heat and drought tolerance is needed for better performance.

The Kentucky bluegrass improvement program at Rutgers involves extensive field evaluation of collections from both the United States and Europe, new material developed in the breeding program, as well as cultivars and selections developed by other breeders. In addition, the turfgrass research program at Rutgers participates in the National Turfgrass Evaluation Program (NTEP), which is sponsored by the

Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc.

PROCEDURES

Ten trials were seeded in September between 1995 and 1999 at North Brunswick, Adelphia, or Pittstown, New Jersey (Tables 1 to 10). One low maintenance test was located at Adelphia (Table 10) and one at Pittstown (Table 7). The other tests were conducted under medium-high maintenance regimes. The soils at the three research farms are moderately fertile and fairly well drained.

Entries in each test were sown by hand using a maximum of 0.53 oz of seed per 3 X 5 ft plot (2.2 lb/1000ft²). An unplanted 6-inch border was left around each plot. Each test was arranged in a randomized complete block design with three replications. Annual nitrogen (N) applied and mowing heights for each trial are presented in Table 11. The amount of N applied varied between tests to permit the evaluation of characteristics known to respond to N level. No single N application exceeded 1.0 lb/1000 ft². Mowing was frequent enough (two or three times per week during active growth) to avoid excessive defoliation and the accumulation of clippings. Reel mowers were used to maintain a 1.5-inch height of cut, while rotary mowers were employed at a higher cut.

After establishment, summer annual weeds were controlled by a spring application of DCPA, bensulide, or dithiopyr (Dimension), and broad-leaf weeds were controlled by an autumn application of 2,4-D and dicamba. Bensulide was applied in August 2000 for *Poa annua* control on the 1998 and 1999 tests at North Brunswick. No other pesticides were applied. In general, soil pH was maintained between 6.0 and 6.5 with agricultural limestone. Tests were irrigated during establishment and also when needed to avoid severe drought stress. The low maintenance test at Pittstown (Table 7) received irrigation when soil moisture was extremely low. The low maintenance test at Adelphia (Table 10) was irrigated only during establishment.

All tests were rated frequently throughout the growing season for turf quality (color, brightness, leaf texture, density, uniformity, and amount of damage due to diseases and insects). Other characteristics were evaluated separately on some tests when differences between entries were apparent. These characteristics included spring green-up (Tables 1, 3, 5, and 7), winter and spring appearance (Tables 1, 3, 4, and 6), stripe smut disease (caused by *Ustilago striiformis*) (Table 3), leaf spot disease (Tables 1, 2, 3, 4, 6, and 9), genetic color (Table 7), moisture stress (Table 6), establishment (Tables 8, 9, and 10), and percent *Poa annua* (Table 8). All ratings were based on a 1 to 9 scale, where 9 represented the most favorable turf quality or desirable turf characteristic. Various people throughout the season scored ratings to reduce individual preferences toward a particular trait.

RESULTS

Results are presented in Tables 1 through 10. Entries are ranked according to their overall (multi-year) quality average. Table 1 includes all the entries of the 1995 Medium-High Maintenance Kentucky Bluegrass Trial sponsored by NTEP. Many distinct types of Kentucky bluegrass have been released and these can be classified into groups based on growth and performance characteristics. The Kentucky bluegrass types are described below, and are based on observations of many Rutgers turfgrass evaluation trials. It should be noted that this classification system continues to be refined as more cultivars are developed and their distinct characteristics are expressed in research trials. This method of classification is used to present data in Table 1.

Compact Type

Cultivars within this group are characterized by a low, compact growth habit and possess very good to excellent resistance to leaf spot disease. Most cultivars form a highly attractive turf after green-up in late spring. Generally, these cultivars have long winter dormancy, and a purple

coloration can be observed on many during cold weather, which is reflected in winter color or winter appearance ratings. However, some cultivars do exhibit better winter performance, such as Blackstone and A81-2183. Performance during summer heat and drought stress is variable, with some cultivars producing very good turf quality. Variable recovery from summer stress has been observed in the group. Entries in this group exhibited good resistance to stripe smut disease.

Midnight Type

Within the Compact Type, a number of cultivars exhibit similar growth and performance characteristics to the cultivar Midnight. These cultivars have long winter dormancy with late spring green-up. These cultivars are susceptible to powdery mildew and characteristically have a very dark green color with good turf quality and good heat tolerance.

America Type

Within the Compact Type, a number of cultivars exhibit similar growth and performance characteristics to the cultivar America. These cultivars have finer leaf texture and higher density than most other compact type cultivars. This type has moderate winter dormancy often exhibited by yellowing or bleaching of leaf tips. Moderate recovery from summer stress along with good resistance to leaf spot and most races of powdery mildew was observed within this group.

Julia Type

Another group can be typified by the performance characteristics of the cultivar Julia. These cultivars form a high quality turf but have moderate winter performance. Julia type cultivars have good resistance to leaf spot and stripe smut, but can be damaged by brown patch (caused by *Rhizoctonia solani*). This type is susceptible to dollar spot disease.

Bellevue Type

These cultivars form a turf with medium growth, medium wide leaves, and medium shoot density. Excellent cool-season vigor exists in this group, which is evident by the excellent color retention and turf quality during the winter, and early spring green-up. Cultivars within this type can become stemmy in turf plots due to seed head formation in late spring. Bellevue type cultivars have moderate recuperative ability from summer stress and have moderate resistance to leaf spot and stripe smut disease. This type is moderately susceptible to billbug damage.

CELA Type (Challenger, Eclipse, Liberty, Adelphi Type)

Cultivars of this type exhibit early spring green-up similar to the Bellevue types, but tend to have less steminess under mowed turf conditions than cultivars within the Bellevue type. This group has moderate to good stripe smut and leaf spot resistance and generally good winter color.

Aggressive Type

This group of cultivars is recognized for its aggressive lateral growth habit and development of a turf with high shoot density. An aggressive dense growth may be advantageous for highly trafficked turfs and can hasten the development of a mature sod. Aggressive cultivars can dominate other species or cultivars when used in blends or mixtures. If aggressive cultivars dominate a stand, rapid expression of the cultivar's strengths and weaknesses would occur. The cultivars within this group seem to share only two common characteristics, vigorous lateral spread and high shoot density. Other turf characteristics such as spring green-up, winter dormancy and color, disease susceptibility, and recovery from summer stress vary considerably among these cultivars.

Mid-Atlantic Ecotype

This group of cultivars forms a vigorous turf of medium-high density with a deep, extensive root and rhizome system. In general, this group has moderate susceptibility to leaf spot disease; exceptions are Preakness, ZPS-204, and SR 2000, which have shown good resistance. The ability to recover from leaf spot damage and other stresses is excellent as a result of the deep extensive rhizome system. These cultivars have good tolerance of summer stress and exhibit good recovery after summer stress. This group has moderate to good winter performance.

Shamrock Type

Cultivars within this type exhibit characteristics similar to the cultivar Shamrock. This group tends to have moderate winter color, moderate resistance to leaf spot disease, and moderate susceptibility to billbug feeding. This type has the potential for high seed yield production, but unlike the BVMG type, most cultivars show good tolerance to stripe smut disease. Summer stress tolerance is variable within this type.

Cheri Type

These cultivars possess growth and performance characteristics similar to the cultivar Cheri. They will produce a turf of medium-low growth and medium density, with medium-wide leaves. These cultivars have moderate resistance to leaf spot, good resistance to stripe smut disease, and have moderate susceptibility to dollar spot. Seed yield potential of these cultivars is relatively high. Moderate winter dormancy is exhibited.

BVMG Type (Baron, Victa, Merit, Gnome Type)

This widely used group of cultivars has very high seed yield potential and can generally produce medium-good quality turf in the absence

of stripe smut. These cultivars have medium-low growth, medium-wide leaves, and produce a medium-dense turf. These cultivars often become stemmy in turf plots from seed head formation in late spring. The BVMG type has moderate resistance to leaf spot disease, but all entries evaluated in long term trials at Rutgers are susceptible to a new race of stripe smut disease. This group of cultivars generally has poor winter color and longer winter dormancy. BVMG type cultivars can also suffer significant billbug damage. Recovery from summer stress ranged from poor to moderate.

Common Type (formerly Midwest Ecotypes)

These cultivars and selections are frequently referred to as “common” Kentucky bluegrass, and are characterized by an erect growth habit and narrow leaf blades. Common type should not be confused with the seed label term “variety-not-stated” or VNS; unfortunately, the term “common” is often used to inaccurately describe VNS seed. Many of these cultivars were selections of naturalized ecotypes found in old pastures of the Midwestern United States. These cultivars produce seed early and economically, exhibit good stress tolerance, and often survive summer drought in a dormant condition.

Common type cultivars are susceptible to leaf spot disease and may be extensively damaged by this disease during the cool humid conditions of winter and spring. Poor turf quality and excessive purple coloration is typical on some of these cultivars during winter. The two best performing common types are A91-703 and A91-702, which also have moderately good resistance to leaf spot. These cultivars are best adapted to high cutting heights in regions with cool nights, bright sun, and low humidity. Com-

mon type cultivars are suited for low maintenance utility turf areas where soil stabilization and conservation are needed.

Other Turf Types

This group of cultivars and selections possess traits that are intermediate between two or more of the previously discussed groups. Further study may allow the classification of some of these cultivars into known groups or the separation of additional types.

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Table 1. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1995 at Adelphia, NJ. (Includes the 1995 National Kentucky Bluegrass Medium-High Maintenance Test-2 NTEP.)

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.							
COMPACT TYPE											
1 Moonlight	6.3	6.1	5.9	6.5	6.5	4.7	4.3	8.7			
2 SR 2109	6.3	6.4	6.5	6.2	6.2	7.0	5.3	8.0			
3 Blackstone	6.2	5.7	6.7	6.4	6.4	6.7	5.0	7.3			
4 Blacksbury	6.1	5.9	6.5	6.2	6.2	7.0	5.0	8.0			
5 Princeton P-105	6.0	5.8	6.1	6.6	6.6	3.7	3.3	7.7			
6 A81-2183	5.9	5.7	5.9	6.1	6.1	7.3	6.3	8.3			
7 NJ-1190	5.8	5.8	5.9	6.5	6.5	5.0	8.3	5.7			
8 H94-461	5.7	5.2	5.4	5.5	5.5	5.3	3.7	6.7			
9 H92-109	5.7	6.1	5.6	6.0	6.0	4.7	7.3	5.7			
10 Wildwood	5.5	5.3	5.6	5.1	5.1	3.7	2.3	7.0			
11 Alpine	5.5	5.6	5.4	5.0	5.0	2.3	2.3	7.0			
12 AG 508	5.5	5.6	5.5	4.9	4.9	3.0	2.7	7.3			
13 Indigo	5.5	5.6	5.0	4.7	4.7	4.9	4.9	7.4			
14 H94-451	5.5	5.4	5.4	4.7	4.7	5.0	4.0	7.0			
15 Conni	5.3	5.7	5.5	5.6	5.6	5.3	4.3	6.3			
16 Platini	5.2	5.4	5.4	5.7	5.7	4.0	6.3	7.0			
17 Glade	4.9	4.5	5.2	4.7	4.7	4.0	4.3	4.0			
18 Ram I	4.8	5.3	5.3	5.1	5.1	6.0	4.7	4.3			
19 Nugget	4.5	4.8	4.7	4.2	4.2	1.0	2.0	6.0			
20 Amazon	4.3	4.1	4.7	4.6	4.6	4.0	4.7	5.3			

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996 Avg.	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.								
	MIDNIGHT TYPE												
1 Midnight	6.3	6.5	5.8	6.3	6.6	6.2	3.7	2.7	5.0				
2 Total Eclipse	6.2	6.8	6.2	6.1	5.7	6.2	3.3	2.3	5.7				
3 Liberator	6.1	6.5	5.7	6.2	6.2	6.0	4.3	2.7	6.0				
4 NuGlade	5.9	6.0	6.1	6.0	6.0	5.5	3.0	2.7	6.0				
5 Impact	5.9	6.4	6.2	5.6	5.6	5.6	4.0	2.7	6.7				
6 Award	5.9	6.5	5.4	6.1	5.8	5.6	3.3	3.0	5.3				
7 Quantum Leap	5.8	6.7	6.5	5.5	5.3	5.3	3.7	3.7	6.3				
8 Odyssey	5.6	6.2	5.9	5.5	5.1	5.3	3.3	2.7	6.7				
9 Rugby II	5.4	6.1	5.5	4.9	5.2	5.2	3.3	3.0	5.3				
10 Arcadia	5.3	6.3	5.9	4.5	5.1	4.9	3.7	3.7	5.3				
11 Absolute	4.9	6.3	5.6	4.6	3.8	4.2	3.3	3.0	3.0				
12 Med-1580	4.6	4.9	4.6	3.9	4.9	4.5	4.7	3.7	4.3				
	AMERICA TYPE												
1 Langara	6.2	6.6	6.3	5.7	6.0	6.6	5.7	6.3	8.0				
2 SRX 2284	6.2	6.7	6.0	6.2	6.2	6.1	7.7	5.0	8.3				
3 A94-296	5.5	6.1	5.7	5.6	5.1	5.0	5.7	4.7	8.0				
4 Brilliant	5.5	5.8	5.6	5.4	5.2	5.3	3.7	6.0	7.3				
5 Unique	5.4	5.8	5.5	5.4	5.3	5.0	4.7	6.3	6.3				

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.				
AMERICA TYPE (continued)									
6 H94-282	5.4	6.0	5.1	5.2	5.3	5.6	6.3	4.7	8.3
7 C-74	5.4	6.0	5.7	5.5	5.1	4.9	3.9	5.3	6.5
8 America	5.4	5.7	5.1	5.6	5.3	5.3	4.3	5.3	6.0
9 H94-285	5.4	6.0	5.3	5.2	5.1	5.3	3.7	6.0	5.7
10 Showcase	5.4	5.6	5.1	5.2	5.3	5.7	4.3	6.0	7.0
11 Apollo	5.2	5.7	5.1	5.3	5.0	5.2	4.7	5.7	6.7
JULIA TYPE									
1 A90-287	6.0	6.4	5.6	6.2	5.9	5.8	4.2	4.7	9.0
2 H92-558	5.8	6.6	5.3	5.9	5.6	5.4	4.3	5.7	9.0
3 A93-421	5.8	6.2	5.9	6.1	5.4	5.2	4.0	4.3	8.3
4 A93-417	5.7	6.2	5.6	5.5	5.5	5.7	4.7	4.7	9.0
5 A90-924	5.5	6.1	5.3	5.7	5.5	4.9	4.2	4.0	9.0
6 A93-453	5.4	6.3	5.0	5.6	5.2	5.1	4.0	4.3	9.0
7 Julia	5.3	5.3	4.9	5.3	5.2	5.6	5.3	6.0	7.0
8 A88-309	5.1	5.0	5.1	5.0	5.1	5.2	6.0	6.0	6.0
9 Caliber	5.0	4.3	4.9	5.0	5.0	5.7	6.0	6.0	6.0

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹				1996-2000 Avg.	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996-2000 Avg.	1996 Avg.	1997 Avg.	1998 Avg.									
CELA TYPE													
1 Jefferson	5.7	5.1	5.2	6.3	6.1	6.7	7.0	8.3					
2 Eclipse	5.3	5.2	5.8	4.8	5.2	6.0	5.3	7.3					
3 Challenger	5.2	6.1	5.5	4.9	4.5	6.0	6.0	5.0					
4 Rambo	5.0	5.0	4.7	5.1	5.0	5.0	6.3	6.0					
5 Liberty	4.8	4.9	4.6	5.5	4.2	6.0	6.0	7.0					
BELLEVUE TYPE													
1 Freedom	5.5	5.5	5.1	6.1	5.3	6.3	6.3	7.3					
2 Suffolk	4.9	4.5	4.5	5.4	4.8	6.0	5.7	7.7					
3 Haga	4.8	4.9	4.4	5.2	4.8	3.7	6.0	8.0					
4 Classic	4.7	4.7	4.1	5.4	4.4	7.3	6.3	7.7					
AGGRESSIVE TYPE													
1 Princeton 104	5.8	4.8	5.7	6.0	6.7	6.0	6.3	8.0					
2 North Star	5.3	6.1	5.3	4.7	4.8	2.7	2.3	6.7					
3 Touchdown	5.2	4.4	5.2	5.4	5.4	5.9	5.3	8.2					
4 Limousine	4.6	5.1	4.3	4.6	4.6	4.3	6.0	6.0					

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.								
MID-ATLANTIC TYPE													
1 Preakness	5.6	5.6	5.7	5.8	5.7	5.7	5.5	6.7	7.2				
2 Livingston	5.5	5.5	5.6	5.6	6.0	7.0	7.0	7.0	7.0				
3 A82-204	5.4	5.6	5.6	5.1	4.8	6.0	4.3	5.3	5.3				
4 Monopoly	5.0	4.7	5.7	5.2	5.2	5.3	5.7	6.0	6.0				
5 Plush	5.0	5.1	5.1	4.9	5.4	5.3	6.0	5.7	5.7				
6 Eagleton	4.5	4.6	4.6	4.8	4.3	4.0	5.6	3.1	3.1				
7 SR 2000	4.3	4.4	3.6	4.1	4.1	4.3	4.3	7.7	7.7				
8 Bel 21	4.0	4.2	4.1	4.2	3.5	3.9	6.2	3.9	3.9				
9 RSP	4.0	3.8	4.2	4.4	3.9	4.3	6.0	2.0	2.0				
10 Muddy PK	3.8	3.9	4.0	4.2	3.7	4.0	6.0	2.0	2.0				
OTHER TYPE													
1 93KB 5	5.7	5.3	5.3	5.5	6.2	5.0	3.7	7.3	7.3				
2 Pick 8-15-94W	5.7	5.3	5.4	5.6	6.0	5.7	5.0	7.3	7.3				
3 BAR VB 6820	5.6	5.5	6.0	5.9	5.7	2.7	2.0	6.0	6.0				
4 A84-605	5.5	5.5	5.5	5.7	5.3	6.0	4.7	7.0	7.0				
5 PST-P46	5.5	5.2	4.9	5.6	5.5	4.0	3.0	6.3	6.3				

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.								
6 Rita	5.4	5.6	5.4	5.1	4.7	6.5	5.3	8.0					
7 BA 81-058	5.3	5.6	5.6	4.9	4.6	4.7	4.7	6.0					
8 Bartita	5.2	5.7	4.8	5.4	5.0	4.7	3.7	7.3					
9 Pick 247	5.2	5.3	5.3	5.1	5.3	4.3	4.7	6.0					
10 BA 81-270	5.2	4.6	5.3	5.4	5.6	4.3	5.7	7.0					
11 BAR VB 5649	5.2	4.4	5.7	5.2	5.3	5.0	7.0	7.7					
12 Chateau	5.1	4.8	5.6	5.4	4.8	3.7	4.7	6.7					
13 Misty	5.1	4.9	4.8	5.6	5.6	7.0	4.3	6.0					
14 Ascot	5.1	5.3	5.3	5.2	4.6	3.3	3.3	5.7					
15 Washington	5.1	5.4	5.0	5.3	5.6	5.8	7.2	8.0					
16 Allure	5.1	5.1	4.9	4.7	5.3	3.7	5.7	6.0					
17 Cardiff	5.0	5.2	5.5	4.6	4.8	4.3	6.0	7.0					
18 BAR VB 233	5.0	4.8	5.0	5.0	5.3	4.0	6.0	7.3					
19 NuStar	5.0	4.7	5.1	5.3	5.1	3.3	4.3	6.3					
20 LKB-95	5.0	4.3	5.5	5.2	5.5	5.7	5.0	5.3					
21 Seabring	5.0	5.5	5.1	5.0	4.5	3.3	4.0	7.7					
22 Pick 151	4.9	4.2	5.0	5.4	4.7	6.7	6.3	6.3					
23 SRX 2205	4.9	4.8	4.7	5.4	4.5	3.7	4.3	4.3					
24 Chicago	4.8	4.8	5.1	4.9	4.8	3.7	4.3	5.0					
25 Bronco	4.8	4.5	4.9	4.9	4.7	4.0	3.7	7.7					

OTHER TYPE (continued)

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹ -----					2000 Avg.	1999 Avg.	1998 Avg.	1997 Avg.	1996 Avg.	1995-2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996-2000 Avg.	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.									
OTHER TYPE (continued)														
26	BAR VB 3115B	4.8	5.1	4.9	4.8	4.7	4.6	4.6	3.7	7.3	7.0			
27	Explorer	4.8	5.1	5.0	5.1	4.6	4.2	4.2	3.7	4.0	5.3			
28	Fylking	4.8	4.8	5.2	4.9	4.8	4.2	4.2	4.7	4.7	4.7			
29	Pick 855	4.7	4.4	4.3	4.9	5.2	4.7	4.7	3.7	5.3	3.0			
30	Coventry	4.7	4.9	4.9	4.5	4.8	4.4	4.4	3.3	4.3	6.3			
31	D3WN 763	4.7	3.5	5.3	5.2	4.8	4.6	4.6	4.3	4.7	6.0			
32	PST-B9-196	4.7	4.5	4.5	4.5	5.0	4.9	4.9	6.3	5.7	7.0			
33	Pick 3	4.6	4.3	4.6	4.6	5.0	4.8	4.8	5.7	4.7	5.7			
34	Pick 4	4.6	4.2	4.9	4.5	4.8	4.8	4.8	5.0	4.7	5.7			
35	AG 496	4.6	4.5	5.4	5.0	4.2	4.0	4.0	4.7	4.7	4.0			
36	HV 242	4.6	4.8	3.8	4.4	4.9	5.2	5.2	4.7	6.3	7.0			
37	Baronie	4.6	4.4	4.7	5.0	4.8	4.0	4.0	7.0	6.7	7.3			
38	VB 16015	4.6	5.1	4.5	4.6	4.4	4.3	4.3	5.0	5.0	6.7			
39	Jewel	4.5	3.6	4.5	4.2	5.0	5.3	5.3	3.7	5.0	6.0			
40	Sodnet	4.4	4.5	4.2	4.3	4.6	4.5	4.5	2.7	3.7	7.3			
41	VB 16015	4.4	5.0	4.2	4.0	4.2	4.8	4.8	5.3	6.0	5.7			
42	BA 75-490	4.4	3.7	3.8	4.5	4.9	5.0	5.0	5.3	6.0	5.3			
43	NJ-54	4.4	3.0	4.6	4.7	5.0	4.6	4.6	5.3	5.0	6.3			
44	Nassau	4.4	4.2	4.2	5.1	4.3	4.1	4.1	6.7	5.7	5.7			
45	KB-02-06Ax23	4.3	3.8	4.5	4.0	4.7	4.6	4.6	4.3	5.3	7.3			

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹ -----					1996-2000 Avg.	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996-2000 Avg.	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.									
OTHER TYPE (continued)														
46	Canterbury	4.3	4.3	4.2	4.8	4.4	3.9	5.1	5.0	5.7				
47	BH 95-199	4.3	3.9	3.7	4.7	4.6	4.6	5.3	4.3	6.3				
48	NTT 683	4.3	4.1	3.8	4.6	4.5	4.6	1.3	2.7	5.7				
49	Wx5 955-2	4.3	3.6	4.6	4.2	4.6	4.3	5.3	5.3	5.7				
50	BA 75-163	4.2	4.7	3.9	4.2	4.4	4.1	3.7	5.0	7.0				
51	KB-02-04x35	4.2	3.9	4.1	4.0	4.9	4.2	3.3	5.3	5.3				
52	Pick 2	4.2	3.2	4.3	4.4	4.6	4.6	5.3	4.3	5.7				
53	BA 76-197	4.2	3.0	4.0	4.6	4.6	4.6	4.0	4.7	5.3				
54	PTE	4.2	4.6	3.6	4.6	4.3	3.7	5.7	5.7	6.7				
55	93KB 8	4.1	3.8	3.7	4.0	4.4	4.4	4.7	4.3	7.3				
56	J-1555	4.1	4.2	4.2	3.6	4.2	4.1	3.3	4.3	5.7				
57	Pepaya	4.0	4.2	3.8	4.7	4.4	3.1	2.3	2.0	5.7				
58	JC91 L II	4.0	4.6	3.9	3.9	4.0	3.6	3.7	4.0	7.3				
59	93 KB1	4.0	3.1	3.9	4.5	4.5	4.1	6.3	5.3	7.0				
60	93KB 4	4.0	4.1	3.8	4.1	4.2	3.7	5.0	5.3	4.7				
61	Nimbus	3.9	4.6	4.5	3.8	3.8	2.8	6.0	5.0	3.7				
62	HV 130	3.9	6.2	4.3	3.8	2.5	2.7	2.7	3.0	4.0				
63	KBGJB91-B	3.9	4.3	4.7	3.4	3.2	3.6	3.7	4.3	4.0				
64	93KB 2	3.8	3.2	4.0	3.6	4.6	3.9	4.0	5.0	4.7				
65	Sidekick	3.8	3.0	3.7	4.6	4.1	3.8	4.3	4.3	5.3				

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	2000 Avg.				
66 Baruzo	3.0	4.0	3.8	3.9	3.9	3.0	3.7	3.3	
67 Merion	4.0	4.4	4.0	2.8	2.8	4.3	4.7	5.0	
68 BA 73-373	4.4	3.9	3.2	2.7	2.7	2.7	4.3	3.7	
69 Pick Vat	3.6	3.9	4.0	3.8	3.8	5.3	6.0	2.0	
70 93KB 9	4.1	3.8	3.7	2.8	2.8	4.0	4.5	5.0	
71 Lipoa	3.0	3.6	3.2	2.4	2.4	2.7	4.3	3.3	
72 Compact	3.6	3.2	3.5	2.7	2.7	3.3	4.7	4.0	
OTHER TYPE (continued)									
SHAMROCK TYPE									
1 NJ-GD	5.3	5.6	6.1	5.8	5.8	6.3	5.3	7.0	
2 Champagne	5.5	4.8	5.5	5.7	5.7	6.3	5.0	7.0	
7 PST-697	5.2	5.3	4.9	4.3	4.3	5.0	5.0	8.3	
3 A91-625	4.9	5.1	5.4	5.2	5.2	6.3	5.0	6.0	
4 Shamrock	4.8	5.2	5.0	4.6	4.6	5.3	5.3	6.0	
5 A91-624	4.4	4.8	4.1	4.5	4.5	5.5	4.8	4.9	
6 Parkland	4.9	3.9	3.9	4.0	4.0	4.3	5.0	6.0	
7 LTP-620	3.7	4.0	4.6	4.7	4.7	5.3	5.0	4.7	
8 A88-744	3.1	3.9	3.8	3.4	3.4	3.3	3.3	5.0	
9 SR 2100	4.4	3.5	3.4	2.8	2.8	3.3	3.7	3.7	

Table 1 (continued).

Cultivar or Selection	Turf Quality ¹					1996-2000 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.						
CHERI TYPE											
1 A91-391	5.1	4.3	4.8	5.2	5.7	4.0	4.7	7.0			
2 A93-238	5.1	4.7	5.2	4.9	5.2	4.0	4.0	7.0			
3 Sydsport	5.1	4.6	5.0	5.4	5.5	4.0	6.3	6.7			
4 A82-1095	5.0	4.8	4.6	5.1	5.3	4.0	4.7	7.0			
5 Cheri	4.8	5.0	4.5	4.6	4.5	4.3	4.0	5.3			
6 Serene	4.7	4.1	4.7	4.9	5.2	4.0	5.0	6.7			
7 Cobalt	4.6	3.7	4.3	4.7	4.9	3.7	4.7	6.0			
8 PST-BO-165	4.6	4.0	4.6	5.1	4.8	3.0	5.0	6.3			
9 A82-1091	4.5	3.8	4.3	4.9	4.9	4.0	3.7	7.0			
BVMG TYPE											
1 Dragon	4.6	4.1	4.9	5.1	4.7	6.3	5.0	4.3			
2 Marquis	3.9	4.7	3.6	3.2	3.9	2.7	4.3	3.3			
3 Abbey	3.9	4.4	4.3	3.6	2.9	3.0	3.7	3.0			
4 BA 70-060	3.8	5.0	3.8	2.8	3.3	3.3	4.3	3.3			
5 Crest	3.8	4.7	3.3	2.9	3.1	3.3	4.3	3.0			
6 Blue Chip	3.8	4.5	3.3	3.2	3.5	4.3	3.7	4.0			
7 Raven	3.8	4.7	3.6	3.2	2.9	2.7	3.0	3.3			
8 Goldrush	3.8	4.3	2.8	3.3	4.0	4.3	4.7	3.3			
9 BA 81-220	3.8	4.7	3.6	3.1	3.1	2.7	3.7	3.0			
10 Envicta	3.7	4.4	3.6	3.1	2.7	3.0	4.0	2.7			

Table 1 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					1996-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ April 2000
	1996 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.								
	BVMG TYPE (continued)												
11 Fortuna	3.6	4.5	5.0	3.5	2.5	2.7	2.3	4.0	3.7				
12 Blue Star	3.6	3.8	3.6	3.8	3.5	3.5	3.3	4.0	4.0				
13 BA 77-102	3.6	4.0	4.8	3.4	2.7	3.2	3.7	4.0	3.7				
14 Baron	3.5	3.8	4.4	3.3	2.7	3.3	2.3	3.7	4.0				
15 BA 81-113	3.5	3.8	4.1	4.0	2.9	2.5	3.3	4.0	3.7				
	COMMON TYPE												
1 A91-703	4.9	4.5	5.2	5.0	4.9	4.6	7.0	6.0	7.0				
2 A91-702	4.6	4.1	4.7	5.0	4.9	4.6	7.3	6.3	6.7				
3 H86-749	4.1	3.1	4.1	4.3	4.4	4.6	6.0	7.0	4.7				
4 Huntsville	3.6	3.1	3.7	3.1	4.1	4.0	5.0	5.3	3.0				
5 S-21	3.4	2.9	4.3	3.1	3.6	2.9	5.7	6.0	1.3				
6 South Dakota Cert.	3.3	2.5	3.3	3.3	3.8	3.5	4.3	6.0	3.3				
7 Exp# 1589	3.2	2.9	3.8	2.7	3.5	3.3	5.3	5.3	2.0				
8 Kenblue	3.1	2.3	3.6	3.3	3.3	3.0	4.7	7.0	1.7				
LSD at 5% =	0.7	0.7	1.0	1.0	0.8	1.1	1.6	1.4	1.8				

¹9 = best turf quality
²9 = best winter appearance, based on winter color retention, active growth, and dark green color
³9 = earliest spring green-up
⁴9 = least leaf spot disease

Table 2. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1996 at North Brunswick, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----					Leaf Spot ² May 2000
		1997- 2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	
1	Award	7.1	7.1	6.8	7.6	6.9	6.3
2	Impact	7.1	7.3	6.9	7.7	6.6	6.0
3	Pick 113-3	7.1	7.0	7.3	7.3	6.6	6.7
4	Blackstone	6.5	6.4	6.3	7.1	6.1	6.7
5	Total Eclipse	6.5	7.2	6.1	6.5	6.1	5.7
6	Midnight	6.5	6.7	6.4	6.6	6.1	6.3
7	Rugby II	6.5	7.2	6.7	6.5	5.4	6.0
8	A94-706	6.4	6.6	5.8	6.8	6.4	5.0
9	Langara	6.4	6.4	5.9	6.6	6.7	7.0
10	Liberator	6.4	6.7	6.1	6.6	6.0	5.7
11	NuGlade	6.1	6.7	6.0	6.1	5.8	5.7
12	H94-195	6.1	5.1	6.0	7.0	6.2	7.7
13	A94-359	6.0	5.9	6.2	6.3	5.7	6.3
14	Rambo	6.0	5.9	6.0	6.2	5.8	5.7
15	H94-321	5.9	6.0	5.1	6.4	5.8	6.5
16	H92-558	5.9	6.1	5.7	5.7	6.1	7.0
17	A93-453	5.9	6.1	5.8	6.2	5.5	7.3
18	Indigo	5.9	5.7	6.4	5.7	5.7	7.7
19	America	5.6	5.3	5.8	5.5	5.9	5.3
20	A82-204	5.6	6.0	5.5	6.0	4.9	5.7
21	Preakness	5.6	5.3	5.2	5.8	6.1	7.3
22	A95-414	5.6	5.8	5.3	6.0	5.3	7.0
23	Wildwood	5.6	5.4	5.3	5.5	6.1	7.7
24	A95-1009	5.6	5.4	5.4	6.0	5.5	7.3
25	Princeton P-105	5.5	5.5	5.4	5.5	5.6	7.7
26	Champagne	5.5	5.3	4.9	5.8	5.9	6.0
27	H94-324	5.4	7.0	5.4	5.2	4.2	7.0
28	Alpine	5.4	5.5	5.8	5.2	5.1	6.3
29	A93-417	5.4	5.9	5.1	5.5	5.1	8.0
30	RSP	5.4	5.2	4.2	6.2	6.0	4.7

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----					Leaf Spot ² May 2000
		1997- 2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	
31	Chicago	5.4	5.9	5.3	5.3	4.9	5.7
32	A93-421	5.3	5.4	5.6	5.3	4.9	7.3
33	Limousine	5.3	5.3	4.9	5.9	5.0	5.3
34	H94-283	5.3	5.3	5.3	5.3	5.1	7.3
35	A94-362	5.2	5.5	5.1	5.7	4.6	6.3
36	Eclipse	5.2	4.7	5.6	5.0	5.4	7.0
37	Ba 82-228	5.2	5.5	5.4	5.3	4.3	6.3
38	H94-232	5.1	5.8	5.7	5.0	4.0	5.7
39	H94-461	5.1	5.9	4.8	4.6	5.1	7.0
40	A93-200	5.1	4.9	5.5	5.2	4.7	6.7
41	Dellwood	5.0	4.5	5.5	5.6	4.5	4.0
42	NuStar	5.0	4.7	5.1	5.1	5.1	6.7
43	PST-697	5.0	5.4	4.4	5.3	4.8	7.0
44	Ba 83-113	5.0	5.3	4.4	5.2	4.9	6.7
45	Eagleton	5.0	4.7	4.8	4.9	5.5	6.7
46	H94-227	5.0	5.6	5.0	5.3	3.9	6.0
47	Bel 21	4.9	4.4	4.7	5.6	4.9	4.0
48	Ram I	4.9	5.1	4.6	4.7	5.3	6.0
49	A93-464	4.9	4.9	4.8	5.2	4.7	5.0
50	H90-1186	4.9	5.2	4.3	5.6	4.5	5.3
51	Glade	4.9	5.5	4.4	5.3	4.4	5.0
52	H94-451	4.8	6.0	4.7	4.7	4.0	7.0
53	H90-1190	4.8	5.0	4.3	5.2	4.7	5.7
54	Julia	4.8	4.8	4.7	5.3	4.4	6.0
55	A94-363	4.8	4.8	4.9	4.7	4.2	6.9
56	Muddy Pk	4.8	4.0	4.3	5.3	5.4	3.3
57	Shamrock	4.7	4.2	4.6	5.0	5.0	6.3
58	J-1555	4.7	5.1	4.5	4.8	4.2	5.0
59	H94-418	4.6	5.5	4.5	4.7	3.5	6.3
60	Caliber	4.5	4.3	4.2	4.7	5.0	6.7

Table 2 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----					Leaf Spot ² May 2000
		1997- 2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.	
61	A88-744	4.5	5.4	4.0	5.0	3.8	5.7
62	A94-1122	4.5	5.4	4.4	4.8	3.2	6.0
63	Blue Moon	4.4	5.4	4.3	4.4	3.5	5.0
64	Cheri	4.3	4.3	4.5	3.9	4.7	6.0
65	A93-201	4.3	4.1	4.3	4.3	4.5	6.7
66	Touchdown	4.3	4.2	4.2	4.8	3.9	6.3
67	Ba 84-166	4.3	5.2	4.8	4.1	2.9	4.7
68	Dragon	4.2	4.0	4.4	4.6	4.0	5.3
69	Classic	4.1	4.2	3.8	4.1	4.4	6.7
70	Nottingham	4.1	4.8	4.4	4.2	3.1	4.7
71	Ba 84-021	4.0	5.2	3.4	3.8	3.7	6.7
72	A91-624	3.9	5.6	4.4	3.5	2.2	5.0
73	Baron	3.8	4.7	3.8	3.8	3.0	4.3
74	Blue Chip	3.8	4.9	4.1	3.7	2.5	4.3
75	Nassau	3.7	4.0	3.3	3.9	3.4	4.7
76	Ba 82-230	3.3	4.0	3.2	3.5	2.5	4.7
77	Kenblue	3.0	2.8	2.9	3.0	3.2	3.0
78	Ba 84-176	3.0	3.0	3.0	3.0	2.9	6.0
	LSD at 5% =	0.9	0.7	1.0	1.4	1.3	1.4

¹9 = best turf quality

²9 = least leaf spot disease

Table 3. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1996 at Adelphia, NJ.

Cultivar or Selection	-----Turf Quality1-----					Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ May 2000	Stripe Smut ⁴ May 2000
	1997-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.				
1 Liberator	6.9	7.1	7.1	6.6	6.6	4.7	1.7	7.0	8.3
2 Total Eclipse	6.7	7.4	6.2	6.7	6.6	4.7	1.7	6.3	7.7
3 Midnight	6.6	7.0	6.5	6.6	6.1	3.7	1.0	6.0	9.0
4 Moonlight	6.5	7.0	6.1	6.4	6.6	4.0	2.7	8.3	9.0
5 Impact	6.5	7.0	5.8	6.6	6.8	5.3	2.0	7.0	8.0
6 A95-414	6.4	6.0	6.1	6.5	7.1	4.3	2.3	8.3	8.3
7 NuGlade	6.4	6.6	6.5	6.0	6.4	5.0	1.3	7.0	7.7
8 Pick 113-3	6.3	6.7	6.6	5.9	6.2	5.7	3.7	7.3	8.7
9 Langara	6.3	6.3	5.9	6.3	6.7	6.5	4.9	7.3	8.9
10 Rugby II	6.3	6.5	5.8	6.4	6.3	4.7	2.0	6.7	7.7
11 Award	6.2	6.8	6.1	6.0	6.0	4.0	1.0	6.3	7.0
12 Indigo	6.1	5.9	6.4	5.7	6.3	4.7	4.3	8.7	7.0
13 Blackstone	6.1	6.5	6.0	5.5	6.2	6.0	3.7	7.3	8.7
14 A93-417	6.0	6.6	5.8	6.0	5.8	4.7	5.3	8.7	9.0
15 Princeton P-105	6.0	5.5	5.9	6.0	6.6	4.0	2.0	7.0	8.3
16 SR 2109	5.9	5.6	6.0	5.8	6.1	5.7	3.7	8.7	8.7
17 Wildwood	5.9	5.8	5.8	6.0	5.9	6.7	2.3	7.7	8.3
18 A94-752	5.9	5.8	5.2	6.3	6.1	3.7	5.7	8.7	9.0
19 H94-451	5.8	5.8	5.8	5.8	5.9	5.0	3.3	8.0	8.0
20 H94-461	5.8	5.9	5.8	5.7	5.9	6.7	2.7	7.3	8.7

Table 3 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ May 2000	Stripe Smut ⁴ May 2000
	1997-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.				
21 H92-558	5.8	6.0	5.4	6.1	5.7	4.3	4.7	9.0	8.7
22 A82-204	5.7	6.2	5.6	5.5	5.4	6.3	5.0	6.7	6.3
23 A93-421	5.6	5.9	5.1	5.7	5.6	4.3	4.3	8.7	8.7
24 A95-1009	5.6	5.9	5.8	5.5	5.1	5.3	2.0	8.3	8.7
25 A93-453	5.5	5.8	5.3	5.4	5.6	4.3	5.0	9.0	8.7
26 Jefferson	5.5	5.4	5.3	4.9	6.3	5.0	6.3	8.0	9.0
27 PST-697	5.5	6.4	5.3	5.1	5.1	5.0	5.0	7.7	7.7
28 H90-1186	5.5	5.8	4.7	5.5	5.8	7.3	6.7	7.0	8.7
29 A93-200	5.5	5.4	5.1	5.0	6.2	5.3	5.3	7.0	9.0
30 C-74	5.5	5.9	4.8	5.5	5.6	4.7	6.0	7.7	9.0
31 H94-690	5.4	5.4	5.3	5.6	5.4	6.7	5.0	7.7	9.0
32 Eclipse	5.4	5.3	5.1	5.1	6.0	5.0	5.3	8.3	7.7
33 Preakness	5.4	5.8	4.7	5.3	5.7	4.0	5.0	7.3	9.0
34 Washington	5.4	4.8	5.1	5.3	6.2	5.0	6.3	7.0	9.0
35 A94-706	5.4	5.4	4.9	5.6	5.5	4.0	5.3	6.3	9.0
36 Caliber	5.4	5.8	4.6	5.1	5.8	6.0	6.3	8.0	8.3
37 America	5.4	5.4	5.4	4.9	5.7	5.3	5.0	7.3	8.0
38 Alpine	5.3	4.7	5.6	5.5	5.6	4.0	1.7	7.3	5.7
39 Shamrock	5.3	5.1	4.9	5.1	6.2	5.7	5.3	8.0	8.7
40 Julia	5.3	5.6	4.6	5.2	5.8	7.0	6.3	7.7	8.0

Table 3 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----					2000 Avg.	1999 Avg.	1998 Avg.	1997 Avg.	2000 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ May 2000	Stripe Smut ⁴ May 2000
		1997-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.									
41	A94-363	5.3	5.5	5.1	5.4	5.3	4.5	3.2	8.2	4.4					
42	A91-53	5.3	5.5	4.9	5.0	5.9	6.0	5.0	6.3	9.0					
43	SRX 2205	5.2	5.9	5.3	5.0	4.8	4.3	3.3	7.7	9.0					
44	H90-1190	5.2	5.7	4.6	5.3	5.4	7.0	6.0	7.0	9.0					
45	H94-232	5.2	5.5	5.3	4.8	5.1	5.0	4.7	7.3	8.7					
46	A93-201	5.2	5.0	5.0	4.8	6.0	5.3	5.7	7.0	8.3					
47	Champagne	5.2	5.4	5.2	4.8	5.4	6.0	6.0	7.0	8.3					
48	Unique	5.2	4.7	5.1	5.0	5.8	3.7	5.7	7.7	9.0					
49	SR 2000	5.2	5.3	5.1	5.0	5.3	5.3	4.0	8.3	9.0					
50	Chicago	5.1	5.1	4.9	5.2	5.4	5.3	3.3	7.0	7.3					
51	Eagleton	5.1	4.9	4.9	4.9	5.9	5.3	5.3	6.3	9.0					
52	H94-418	5.1	5.7	5.1	5.0	4.6	4.3	3.3	7.3	7.0					
53	Limousine	5.1	5.7	4.8	4.9	4.9	4.0	4.3	7.0	5.0					
54	Ba 82-228	5.1	5.2	4.5	4.8	5.6	6.3	5.0	8.3	6.7					
55	A91-702	5.1	4.7	5.1	5.0	5.4	6.7	6.3	8.0	9.0					
56	Shade Blue	5.0	5.1	4.8	5.0	5.1	5.3	5.3	7.0	9.0					
57	Blue Moon	4.9	5.8	4.6	4.8	4.5	4.0	3.7	5.0	2.0					
58	A93-354	4.9	5.1	4.9	4.7	5.0	3.7	4.7	7.7	8.2					
59	H86-690	4.9	4.7	5.5	4.5	4.9	3.7	4.0	7.0	8.0					
60	Rambo	4.9	5.6	4.6	4.7	4.5	5.0	3.7	6.0	6.3					

Table 3 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ May 2000	Stripe Smut ⁴ May 2000
	1997-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.				
61 Cheri	4.8	5.1	4.2	5.0	5.1	4.0	5.0	6.0	8.0
62 SRX 2207B	4.8	5.2	4.1	4.7	5.3	4.3	5.0	7.3	8.7
63 A91-703	4.8	4.7	4.6	4.7	5.2	5.7	7.0	7.3	9.0
64 Touchdown	4.8	4.6	4.4	4.7	5.4	5.0	4.7	8.0	8.7
65 J-1555	4.7	4.8	4.5	5.0	4.5	4.3	4.0	5.7	7.3
66 Ba 83-113	4.7	5.1	4.1	4.7	4.9	7.3	3.7	8.3	8.3
67 H94-730	4.7	5.5	5.0	5.2	4.0	3.5	4.3	6.9	7.3
68 JV 91 L2	4.6	4.9	4.4	4.7	4.5	4.3	4.0	6.7	8.3
69 Ba 82-230	4.6	4.2	4.3	4.9	5.1	5.0	6.3	7.7	8.0
70 A88-744	4.6	5.4	4.4	4.5	4.0	3.3	3.7	6.3	2.0
71 Classic	4.5	4.0	4.1	4.7	5.1	6.0	5.3	8.0	7.7
72 OFI-25	4.4	4.0	4.4	4.2	5.0	3.7	5.0	8.0	9.0
73 Dellwood	4.4	4.3	4.6	4.6	4.1	3.3	8.3	4.3	9.0
74 PTE	4.4	5.0	3.7	4.5	4.3	6.0	4.0	8.0	7.7
75 Dragon	4.3	4.3	4.0	4.4	4.5	4.7	3.3	6.0	4.7
76 Ba 84-176	4.3	4.8	4.3	4.1	4.1	5.3	3.0	7.7	7.7
77 Nassau	4.3	4.5	4.1	4.3	4.2	5.0	4.7	7.3	6.3
78 Ba 84-021	4.2	5.1	3.7	4.1	4.0	5.0	3.7	7.3	6.7
79 JV 91 I	4.2	5.2	4.6	4.0	3.1	2.7	4.0	5.0	1.0
80 Bel 21	4.1	4.3	3.7	4.0	4.5	4.3	6.0	4.7	3.3

Table 3 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----					2000 Avg.	1999 Avg.	1998 Avg.	1997 Avg.	Winter Appearance ² March 2000	Spring Green-up ³ April 2000	Leaf Spot ⁴ May 2000	Stripe Smut ⁴ May 2000					
	1997-2000 Avg.	1997 Avg.	1998 Avg.	1999 Avg.	2000 Avg.													
81 Nottingham	4.1	4.8	4.6	4.1	3.0	3.3	4.0	5.0	1.0									
82 PST BM3	4.1	4.1	4.0	4.3	4.0	6.3	9.0	2.7	6.0									
83 Baron	4.1	5.1	5.3	3.4	2.5	2.7	3.7	4.7	1.0									
84 Muddy Pk	4.0	4.0	3.9	3.5	4.7	5.3	5.7	3.3	9.0									
85 SR 2100	4.0	4.9	4.4	3.5	3.1	3.0	3.7	5.0	1.3									
86 Ba 84-166	4.0	5.0	4.9	3.5	2.4	2.3	3.7	3.3	1.3									
87 Blue Chip	3.7	4.6	4.9	2.5	2.8	3.0	4.0	5.3	1.0									
88 Kenblue	3.3	3.4	3.5	3.0	3.4	5.0	7.7	3.7	9.0									
89 CNC	2.8	3.0	2.3	2.5	3.2	5.0	6.0	5.3	8.7									
LSD at 5% =										0.6	0.8	0.8	0.7	0.7	1.5	1.3	1.3	1.6

¹9 = best turf quality

²9 = best winter appearance, based on winter color retention, active growth, and dark green color

³9 = earliest spring green-up

⁴9 = least disease

Table 4. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1997 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----				Winter Appearance ² March 2000	Leaf Spot ³ May 2000
		1998-2000 Avg.	1998 Avg.	1999 Avg.	2000 Avg.		
1	Blacksburg	6.6	5.9	7.1	6.8	5.0	7.0
2	H94-550	6.6	5.7	6.9	7.1	5.3	8.0
3	Langara	6.5	6.1	6.5	6.9	6.8	7.8
4	SR 2109	6.3	6.1	6.4	6.4	6.5	8.0
5	H92-392	6.2	5.8	6.6	6.4	5.3	8.0
6	Midnight	6.2	6.0	6.3	6.2	5.0	5.7
7	North Star	6.1	5.8	6.4	6.2	4.7	8.7
8	Blackstone	6.1	6.2	6.3	5.7	5.3	6.0
9	SRX 2394	6.1	6.2	6.0	6.0	6.0	9.0
10	H92-166	6.0	6.4	5.7	6.1	5.0	5.3
11	Washington	6.0	6.1	6.1	5.8	6.3	6.7
12	NuGlade	6.0	5.6	6.1	6.2	5.0	5.7
13	H94-288	6.0	6.1	5.9	5.9	4.0	6.3
14	Liberator	5.9	5.8	5.8	6.2	4.0	6.3
15	York Harbor G+T-4	5.9	5.7	6.0	6.0	5.0	8.0
16	Award	5.9	5.6	6.0	6.1	5.0	6.3
17	SR 2205	5.9	5.4	6.4	6.0	3.3	7.3
18	95 AN-10	5.8	6.0	5.9	5.6	5.0	6.3
19	Impact	5.8	5.6	6.2	5.7	5.0	6.0
20	A93-453	5.7	6.2	5.5	5.5	4.7	8.0
21	A81-2183	5.7	5.6	6.0	5.7	5.3	7.0
22	A93-238	5.7	5.8	5.7	5.5	5.7	5.7
23	Arcadia	5.7	5.8	5.4	5.8	5.3	6.0
24	H94-293	5.7	5.4	5.6	6.0	4.7	8.7
25	A93-200	5.7	5.6	5.5	5.9	4.7	6.0
26	H94-461	5.6	6.1	5.4	5.4	6.3	8.3
27	H94-707	5.6	5.6	5.6	5.6	5.3	8.0
28	Princeton P-105	5.6	5.2	5.9	5.8	5.0	7.7
29	Total Eclipse	5.6	5.3	5.8	5.7	4.7	6.7
30	Caliber	5.6	5.9	5.5	5.3	5.7	6.3

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Winter Appearance ² March 2000	Leaf Spot ³ May 2000
		1998-2000 Avg.	1998 Avg.	1999 Avg.	2000 Avg.		
31	Moonlight	5.6	6.2	5.7	4.8	4.0	9.0
32	A96-742	5.5	5.8	5.4	5.4	6.3	8.3
33	H92-543	5.5	5.5	5.6	5.5	4.7	6.7
34	Ram I	5.5	5.5	5.7	5.3	6.3	4.3
35	IBC-170	5.5	5.7	5.4	5.3	4.3	6.7
36	Pick 113-3	5.5	5.8	5.9	4.8	3.7	7.0
37	Opti-green	5.4	5.4	5.4	5.6	5.0	5.3
38	Julia	5.4	5.8	5.3	5.2	6.0	7.0
39	A93-201	5.4	5.6	5.5	5.2	5.0	5.3
40	York Harbor G+T-11	5.4	5.5	5.4	5.4	4.3	4.7
41	A93-421	5.4	5.8	5.4	5.1	5.3	8.7
42	Brilliant	5.4	5.5	5.4	5.3	3.0	8.3
43	FairFax	5.4	5.3	5.3	5.5	4.3	5.3
44	A82-204	5.3	5.5	5.0	5.4	5.4	5.4
45	Misty	5.3	5.0	5.5	5.5	7.7	4.7
46	Wildwood	5.3	5.5	5.3	5.2	4.7	7.7
47	Rambo	5.3	5.1	5.4	5.4	4.7	6.3
48	A88-1239	5.3	5.1	5.6	5.2	4.7	5.7
49	A90-287	5.3	5.6	5.3	5.0	4.7	8.7
50	A95-1009	5.3	5.7	5.1	5.1	6.7	8.7
51	Champagne	5.3	5.3	5.6	5.0	5.0	6.7
52	Challenger	5.3	5.6	5.4	4.8	5.7	7.7
53	A93-417	5.3	5.4	5.3	5.1	4.7	8.0
54	Freedom	5.3	5.4	5.3	5.1	6.3	6.3
55	SRX 2207B	5.3	5.3	5.3	5.1	4.7	5.3
56	NuBlue	5.2	5.4	5.1	5.2	5.0	6.3
57	America	5.2	5.4	5.1	5.2	3.7	7.0
58	Showcase	5.2	5.5	5.4	4.7	3.7	7.3
59	H92-208	5.2	4.8	5.3	5.4	5.7	6.0
60	Glade	5.2	4.8	5.7	5.0	4.7	4.0

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Winter Appearance ² March 2000	Leaf Spot ³ May 2000
		1998-2000 Avg.	1998 Avg.	1999 Avg.	2000 Avg.		
61	Rugby	5.1	5.6	5.2	4.6	5.3	6.0
62	H92-203	5.1	5.4	5.1	4.8	3.7	7.3
63	B3-203	5.1	5.1	5.0	5.2	3.3	6.7
64	A95-1073	5.1	5.8	5.0	4.5	5.3	8.0
65	Rita	5.1	5.5	5.0	4.7	6.0	8.7
66	Liberty	5.1	5.3	5.3	4.6	5.0	4.7
67	Dragon	5.1	5.3	5.2	4.7	6.0	6.3
68	Bordeaux	5.1	5.5	5.1	4.5	4.3	8.3
69	Shamrock	5.1	5.2	5.2	4.8	4.7	7.0
70	PST-697	5.1	5.5	4.8	4.8	5.7	8.0
71	Chicago	5.0	5.0	5.2	5.0	4.3	5.0
72	H92-612	5.0	5.5	4.9	4.6	5.0	5.3
73	NuStar	5.0	5.0	5.4	4.8	4.3	7.7
74	H94-201	5.0	5.5	5.3	4.3	4.7	7.7
75	H94-195	5.0	5.7	5.0	4.4	3.7	8.0
76	A91-635	5.0	5.7	5.0	4.3	6.0	5.7
77	A96-494	5.0	5.8	4.8	4.4	5.3	8.7
78	Preakness	5.0	4.8	5.0	5.2	4.3	6.3
79	B3-71	5.0	4.3	5.5	5.1	4.7	6.3
80	B3-171	5.0	5.2	5.2	4.5	4.0	6.3
81	H94-290	5.0	5.1	5.1	4.7	4.3	8.3
82	H90-1193	5.0	6.0	5.0	3.9	5.3	6.0
83	A95-1055	4.9	5.3	5.0	4.5	5.3	8.3
84	A96-481	4.9	5.3	5.3	4.3	4.3	7.7
85	Unique	4.9	4.8	4.9	4.8	2.7	6.8
86	Suffolk	4.9	4.3	5.3	5.1	6.0	7.0
87	B3-170	4.9	4.9	4.9	4.7	4.3	7.7
88	Sodnet	4.9	4.6	4.9	5.2	4.7	6.3
89	H92-558	4.8	5.1	4.9	4.5	4.7	8.7
90	A95-418	4.8	4.9	4.8	4.7	4.3	8.0

Table 4 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----				Winter Appearance ² March 2000	Leaf Spot ³ May 2000
		1998-2000 Avg.	1998 Avg.	1999 Avg.	2000 Avg.		
91	H94-321	4.8	5.2	5.1	4.3	5.9	6.0
92	A91-703	4.8	5.0	5.1	4.3	6.7	6.7
93	Cobalt	4.7	5.1	4.8	4.3	4.7	5.7
94	A91-702	4.7	4.8	5.1	4.3	6.0	6.0
95	Dellwood	4.7	4.5	5.3	4.4	4.3	3.7
96	SCEC-219	4.7	5.2	5.1	3.8	4.0	3.3
97	Limousine	4.7	4.4	4.8	4.8	4.0	4.0
98	H94-232	4.7	5.4	4.8	3.9	4.7	7.0
99	Cabernet	4.6	4.7	5.1	4.1	2.3	4.3
100	Aspen	4.6	4.7	4.7	4.5	5.0	7.3
101	SR 2100	4.6	4.8	4.4	4.4	5.0	4.0
102	J-1555	4.5	4.5	4.9	4.1	5.3	5.0
103	97 Pp-8	4.4	4.5	4.6	4.2	3.3	4.3
104	Nassau	4.4	4.8	4.5	3.9	5.7	6.3
105	Voyager	4.3	4.3	4.4	4.3	4.0	3.7
106	H86-749	4.3	4.6	4.2	4.0	4.7	4.0
107	Blue Chip	4.3	5.1	4.5	3.2	3.0	2.0
108	Huntington	4.3	4.7	4.3	3.8	2.7	5.3
109	Kelly	4.3	4.6	4.8	3.4	4.0	3.0
110	SR 2000	4.3	4.3	4.5	4.0	6.3	7.0
111	PST BM3	4.3	4.9	4.1	3.8	5.7	3.3
112	Muddy PK	4.3	4.6	4.5	3.7	6.0	1.3
113	Baron	4.3	5.0	4.7	3.1	2.3	2.3
114	RSP	4.2	5.1	4.1	3.2	3.7	1.0
115	CIS-Pp 201	4.1	3.1	4.9	4.4	4.3	8.0
116	CIS-Pp 202	4.1	3.4	4.7	4.2	4.7	7.3
117	Denim	4.1	3.2	4.8	4.3	5.7	8.7
118	SCEC-196	3.8	4.3	3.7	3.4	4.3	2.0
119	SCEC-133	3.5	3.9	3.4	3.2	4.7	2.7
120	94 AN-8	3.4	3.7	3.9	2.8	2.0	3.0

Table 4 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----				Winter Appearance ² March 2000	Leaf Spot ³ May 2000
	1998-2000 Avg.	1998 Avg.	1999 Avg.	2000 Avg.		
121 Kenblue	3.4	3.9	3.2	3.1	4.3	2.0
122 SCEC-204	3.4	3.5	3.5	3.2	2.3	2.3
123 S-21	3.3	3.1	3.8	3.1	3.7	2.0
124 94 AN-5	3.2	3.4	3.3	3.0	2.3	1.0
125 SCEC-157	2.8	3.3	2.8	2.5	1.3	1.3
126 95 AN-26	2.7	3.0	2.8	2.4	3.0	2.3
127 SCEC-215	2.6	2.0	2.7	3.0	3.0	2.7
LSD at 5% =	0.6	0.9	0.6	0.8	1.6	1.5

¹9 = best turf quality

²9 = best winter appearance, based on winter color retention, active growth, and dark green color

³9 = least leaf spot disease

Table 5. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1998 at North Brunswick, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.	
1	Moonlight	7.1	6.9	7.2	5.7
2	A94-677	6.4	6.4	6.4	5.7
3	Midnight	6.3	6.3	6.2	4.7
4	Blue Moon	6.2	6.9	5.5	3.7
5	NuGlade	6.2	7.0	5.3	3.7
6	Impact	6.1	7.0	5.2	4.0
7	A96-423	6.1	6.4	5.8	6.3
8	A96-424	6.1	6.5	5.6	5.3
9	Pick 113-3	6.1	5.7	6.4	7.0
10	A95-2007	6.0	6.2	5.8	4.7
11	A96-427	6.0	6.4	5.6	5.3
12	A96-481	6.0	5.7	6.2	5.7
13	H94-460	5.9	4.9	7.0	5.0
14	Rugby II	5.9	6.2	5.6	4.7
15	Award	5.9	6.5	5.3	4.3
16	H94-753	5.9	6.4	5.3	4.7
17	A96-763	5.9	6.0	5.7	5.0
18	A96-714	5.9	5.9	5.8	4.3
19	A96-739	5.8	5.9	5.7	5.0
20	A96-337	5.8	6.1	5.5	5.7
21	Indigo	5.8	6.2	5.3	5.7
22	A96-324	5.7	5.4	6.1	5.0
23	A95-1055	5.7	5.6	5.9	3.7
24	H94-293	5.7	6.6	4.9	4.7
25	SRX 2284	5.7	6.3	5.2	5.7
26	H94-313	5.7	5.6	5.7	5.0
27	H94-232	5.7	5.9	5.5	6.0
28	Langara	5.6	6.2	5.1	5.3
29	A82-204	5.6	6.0	5.3	4.7
30	A96-402	5.6	6.1	5.1	5.7

Table 5 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.	
31	Rambo	5.6	5.4	5.8	5.3
32	A96-416	5.6	5.5	5.7	5.0
33	C-74	5.6	6.0	5.2	5.7
34	H92-203	5.6	5.9	5.3	5.0
35	A96-415	5.6	6.1	5.0	4.0
36	H94-288	5.5	6.0	5.1	4.0
37	Bordeaux	5.5	6.1	5.0	5.0
38	A96-408	5.5	5.8	5.2	5.0
39	A96-348	5.5	5.8	5.2	4.7
40	H92-543	5.5	5.6	5.4	5.7
41	Blackstone	5.5	5.9	5.1	4.3
42	A93-200	5.4	5.7	5.1	5.3
43	A96-451	5.4	6.1	4.7	4.3
44	A96-715	5.4	5.5	5.2	3.3
45	H94-235	5.4	4.9	5.8	4.3
46	H94-690	5.4	4.7	6.0	6.0
47	A96-368	5.4	6.1	4.6	4.7
48	Boutique	5.3	6.0	4.7	4.7
49	America	5.3	5.8	4.9	6.0
50	Princeton P-105	5.3	5.9	4.7	3.3
51	A98-2040	5.3	5.5	5.2	4.0
52	Cabernet	5.3	5.3	5.3	5.7
53	Dellwood	5.3	5.5	5.0	6.3
54	A98-2038	5.3	5.6	5.0	4.0
55	A98-2039	5.3	5.3	5.2	4.7
56	H94-221	5.3	5.3	5.2	3.7
57	H94-654	5.2	4.9	5.5	5.7
58	A96-407	5.2	5.7	4.7	5.7
59	A93-201	5.1	5.5	4.8	4.3
60	A98-2037	5.1	5.6	4.6	4.0

Table 5 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.	
61	Blacksburg	5.1	5.5	4.7	6.3
62	A91-635	5.1	4.7	5.5	5.7
63	Alpine	5.0	5.3	4.8	4.0
64	Cobalt	5.0	5.7	4.4	4.3
65	CVB 19111	5.0	5.7	4.4	5.7
66	A95-1009	5.0	5.2	4.9	3.3
67	Jefferson	5.0	4.8	5.2	5.7
68	Glade	4.9	6.1	3.8	6.3
69	A96-332	4.9	5.3	4.5	4.7
70	A96-308	4.9	4.5	5.3	3.3
71	NuStar	4.9	5.1	4.7	5.7
72	A95-1701	4.9	4.3	5.5	5.3
73	A93-417	4.9	4.8	5.0	4.7
74	A88-532	4.9	5.1	4.6	5.3
75	A95-1667	4.9	4.3	5.4	6.0
76	H92-558	4.9	4.7	5.0	5.7
77	A95-1021	4.8	5.6	4.1	5.0
78	A93-453	4.8	4.7	5.0	4.3
79	Bel 21	4.8	4.9	4.6	5.0
80	Julia	4.8	5.6	3.9	6.3
81	H94-550	4.7	5.3	4.1	5.3
82	A95-490	4.7	5.8	3.7	6.7
83	A90-287	4.7	4.8	4.6	6.0
84	A95-405	4.7	4.7	4.8	3.0
85	Unique	4.7	4.6	4.8	5.3
86	H94-707	4.7	4.1	5.3	3.3
87	Brunswick	4.7	4.5	4.9	5.7
88	Cheri	4.7	5.3	4.0	5.3
89	Eagleton	4.7	4.9	4.4	5.0
90	Wildwood	4.6	5.5	3.8	3.7

Table 5 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.	
91	CVB 17921	4.6	4.5	4.7	5.7
92	Blue Chip	4.6	5.2	4.0	5.3
93	Cesar	4.6	4.5	4.7	5.3
94	A95-418	4.6	4.5	4.6	5.0
95	Chicago	4.6	5.4	3.7	6.3
96	SR 2109	4.5	4.3	4.8	5.7
97	A96-351	4.5	4.7	4.4	4.0
98	A96-323	4.5	4.3	4.7	4.0
99	Eclipse	4.5	5.3	3.8	6.0
100	Rugby	4.5	5.0	4.0	5.7
101	Suffolk	4.5	4.4	4.6	6.0
102	A91-702	4.4	4.6	4.3	6.3
103	Aspen	4.4	5.1	3.8	6.3
104	A96-386	4.4	4.9	3.9	4.7
105	A91-703	4.4	4.9	3.9	6.3
106	A96-270	4.3	3.8	4.8	5.0
107	A96-298	4.3	3.8	4.9	3.7
108	A96-729	4.3	4.5	4.2	5.7
109	Kelly	4.3	4.5	4.1	5.3
110	A95-343	4.3	4.1	4.5	6.0
111	Caliber	4.3	4.5	4.0	6.0
112	A96-293	4.2	4.3	4.1	4.0
113	A96-305	4.2	4.2	4.2	4.3
114	A93-238	4.1	4.7	3.5	5.0
115	Freedom	4.1	4.1	4.0	5.3
116	Roselawn	4.0	3.2	4.9	5.7
117	Classic	4.0	3.9	4.1	6.7
118	Baron	4.0	4.2	3.8	4.0
119	Dragon	4.0	4.8	3.2	5.7
120	NuBlue	4.0	4.2	3.7	5.3

Table 5 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.	
121	Nassau	3.9	4.3	3.5	6.0
122	Touchdown	3.9	4.5	3.3	5.7
123	Muddy Pk	3.8	3.9	3.7	4.7
124	Huntsville	3.8	3.9	3.7	5.3
125	S-21	3.6	3.6	3.7	5.3
126	Crest	3.5	3.6	3.4	4.0
127	Miracle	3.3	4.1	2.6	5.0
128	CVB 19863	3.3	3.7	3.0	3.7
129	Reveille (TB x KB hybrid)	3.1	3.1	3.2	5.3
LSD at 5% =		0.7	0.9	0.9	1.6

¹9 = best turf quality

²9 = earliest spring green-up

Table 6. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1998 at Adelphia, NJ.

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
1	A97-1409	6.8	7.1	6.5	7.0	8.7	7.7
2	Langara	6.6	6.6	6.6	6.3	7.0	6.3
3	A96-468	6.6	6.3	6.8	4.7	8.0	7.0
4	SRX 2284	6.5	6.5	6.5	5.7	7.3	7.3
5	Moonlight	6.4	6.4	6.4	4.7	7.7	7.3
6	A94-677	6.4	5.8	7.0	4.7	7.7	6.7
7	Sonoma	6.4	6.7	6.1	5.3	7.7	7.7
8	A97-1510	6.3	6.3	6.3	6.0	6.0	6.7
9	H94-460	6.3	6.3	6.2	7.0	7.3	7.7
10	A81-2183	6.2	6.0	6.4	6.0	7.7	7.0
11	A97-410	6.2	6.5	5.8	6.7	4.7	7.3
12	A97-1280	6.1	6.2	6.1	3.3	7.7	6.3
13	H94-293	6.1	5.9	6.4	4.7	8.3	6.7
14	Pick 113-3	6.1	6.1	6.2	4.7	6.0	6.3
15	A97-1271	6.1	5.9	6.3	4.7	8.3	6.0
16	A97-1333	6.1	6.2	6.0	5.7	7.7	6.0
17	A97-1263	6.1	5.9	6.2	4.0	7.0	6.3
18	Rita	6.1	6.2	5.9	6.3	7.7	6.0
19	SR 2109	6.1	5.7	6.4	7.3	8.0	7.7
20	A97-458	6.1	6.2	5.9	5.0	5.7	7.0
21	NuGlade	6.0	5.7	6.3	4.0	6.3	8.0
22	H92-203	6.0	5.7	6.3	3.3	7.3	6.3
23	A96-270	6.0	6.2	5.7	4.0	6.7	6.3
24	A95-2007	6.0	6.2	5.7	5.3	6.3	6.0
25	A98-2256	6.0	5.8	6.1	2.7	7.3	6.3
26	Boutique	5.9	5.8	6.1	6.7	8.0	6.3
27	H94-288	5.9	5.9	6.0	3.3	7.0	5.7
28	H94-550	5.9	5.7	6.2	4.7	6.7	6.7
29	A97-1431	5.9	5.9	5.9	4.0	7.0	6.7
30	Showcase	5.9	6.0	5.8	4.0	7.3	6.3

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
31	Princeton P-105	5.9	5.9	5.9	3.7	6.3	5.7
32	A97-1579	5.9	6.0	5.8	4.3	7.0	7.3
33	A97-1276	5.9	6.0	5.7	4.0	8.0	5.0
34	A96-415	5.9	6.4	5.3	5.7	7.7	6.0
35	A95-1667	5.9	5.3	6.4	6.3	7.7	6.3
36	A96-298	5.8	5.7	5.9	2.7	7.0	6.7
37	A97-493	5.8	6.4	5.3	3.7	5.0	6.3
38	A97-890	5.8	5.8	5.8	5.0	7.0	6.3
39	AG-K981	5.8	6.3	5.3	4.3	7.7	5.7
40	A95-1055	5.8	6.0	5.7	5.7	7.0	6.0
41	Jefferson	5.8	5.6	6.0	5.3	5.3	7.7
42	A96-714	5.8	5.7	5.9	6.3	8.7	6.7
43	A95-1009	5.8	5.7	5.9	6.7	8.3	5.7
44	H94-707	5.8	5.8	5.8	3.3	6.3	5.7
45	A93-201	5.8	5.6	6.0	4.7	7.0	6.7
46	H92-109	5.8	5.7	5.9	4.0	6.0	7.0
47	Brilliant	5.8	5.8	5.8	2.7	6.3	7.0
48	Caliber	5.8	5.4	6.2	5.3	7.3	5.7
49	A96-427	5.8	5.5	6.0	5.3	6.7	5.7
50	A98-2037	5.8	5.6	5.9	4.3	6.0	7.0
51	A93-200	5.7	5.6	5.9	4.7	6.7	6.0
52	A96-297	5.7	5.7	5.7	5.3	7.3	6.3
53	H94-753	5.7	6.1	5.4	4.0	6.7	5.3
54	A97-884	5.7	5.8	5.7	5.0	6.7	6.3
55	A97-1343	5.7	5.9	5.6	5.0	7.3	6.7
56	AG K983	5.7	6.2	5.3	4.7	8.0	6.7
57	A96-319	5.7	5.6	5.8	3.3	6.3	5.7
58	A95-1701	5.7	5.5	5.9	5.0	5.7	6.7
59	H92-543	5.7	5.5	5.9	4.0	6.3	6.3
60	NJGD	5.7	5.9	5.4	5.0	6.7	6.3

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
61	A96-324	5.7	5.6	5.7	3.3	7.0	6.0
62	H94-221	5.7	5.6	5.8	3.7	8.3	6.0
63	H94-654	5.7	5.4	6.0	6.0	7.7	6.0
64	Liberator	5.7	5.4	5.9	3.3	6.7	6.0
65	North Star	5.7	5.4	5.9	5.0	8.7	6.7
66	A82-204	5.7	5.9	5.4	5.3	5.7	5.7
67	A96-308	5.7	5.4	5.9	3.0	7.7	5.7
68	Award	5.7	5.7	5.6	4.0	6.3	6.3
69	A97-888	5.7	5.5	5.8	4.7	7.3	7.3
70	York Harbor G+T-4	5.7	6.2	5.1	7.3	7.3	6.7
71	A96-337	5.6	5.7	5.6	5.0	8.0	6.3
72	A95-418	5.6	5.7	5.6	4.0	8.0	6.3
73	A97-904	5.6	5.5	5.7	5.0	7.0	6.0
74	A97-1244	5.6	5.7	5.5	4.7	6.7	5.3
75	C-74	5.6	5.7	5.5	3.7	7.0	6.3
76	A88-309	5.6	5.7	5.6	6.0	6.3	6.0
77	B3-203	5.6	5.5	5.8	3.3	7.0	6.0
78	A96-402	5.6	5.7	5.5	4.7	7.3	5.3
79	H94-235	5.6	5.9	5.2	3.3	8.3	5.3
80	A95-1930	5.6	5.4	5.7	5.3	6.0	6.3
81	A97-1268	5.6	5.3	5.8	5.3	8.0	6.3
82	A96-408	5.6	5.7	5.4	5.0	7.3	5.7
83	A96-424	5.5	5.7	5.3	3.3	6.7	5.7
84	A98-2038	5.5	5.8	5.2	5.7	6.3	5.3
85	A96-416	5.5	5.9	5.1	4.7	7.0	5.0
86	Suffolk	5.5	5.6	5.5	5.7	6.7	4.0
87	H94-690	5.5	5.6	5.4	5.3	6.7	5.0
88	Bordeaux	5.5	5.9	5.1	4.0	7.0	5.7
89	A96-715	5.5	5.5	5.5	5.0	8.0	6.3
90	Blackstone	5.5	5.5	5.5	5.3	5.7	6.3

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
91	A93-417	5.5	5.4	5.6	4.3	7.3	6.7
92	Midnight	5.5	5.3	5.7	4.0	6.0	6.7
93	Impact	5.5	5.3	5.7	4.0	5.7	6.3
94	Rambo	5.5	5.4	5.5	3.7	6.7	6.3
95	A96-763	5.5	5.2	5.7	4.7	8.0	6.7
96	A96-323	5.5	5.2	5.7	4.3	6.7	6.3
97	A97-1294	5.5	5.3	5.6	4.7	6.7	5.3
98	A96-423	5.4	5.3	5.6	5.0	7.3	6.3
99	H92-558	5.4	5.4	5.4	5.3	8.0	6.0
100	A94-314	5.4	5.3	5.5	6.0	6.3	5.0
101	A90-287	5.4	5.3	5.5	4.7	8.0	6.3
102	Cobalt	5.4	5.6	5.2	5.0	7.0	5.7
103	Indigo	5.4	5.3	5.4	4.7	6.3	6.0
104	A97-1272	5.4	5.7	5.1	5.0	8.0	5.7
105	Shamrock	5.4	5.5	5.2	4.7	7.3	6.3
106	A97-474	5.4	5.5	5.2	4.3	6.7	5.0
107	A95-1021	5.3	5.3	5.4	4.3	6.3	5.7
108	Rugby II	5.3	5.1	5.5	4.0	6.0	7.0
109	A97-944	5.3	5.2	5.4	4.3	6.3	5.7
110	A96-351	5.3	5.1	5.5	4.0	7.3	5.3
111	A96-481	5.3	5.0	5.6	3.7	7.3	5.3
112	H94-232	5.3	5.2	5.3	4.0	5.7	6.0
113	A88-532	5.3	5.6	4.9	5.3	7.3	6.0
114	A97-882	5.3	5.2	5.3	4.0	7.0	5.0
115	IBM4	5.3	5.7	4.8	6.0	5.7	4.3
116	H94-313	5.3	5.3	5.2	5.0	6.3	6.3
117	Wildwood	5.2	5.6	4.9	4.7	6.7	5.7
118	A90-1117	5.2	5.1	5.3	5.7	6.3	5.7
119	A96-348	5.2	5.3	5.1	4.3	6.0	5.0
120	A95-410	5.2	5.1	5.3	4.7	8.0	5.7

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
121	A96-739	5.2	5.1	5.2	5.0	6.7	5.3
122	Julia	5.2	5.2	5.2	5.3	7.3	5.7
123	A97-955	5.2	5.1	5.3	5.0	6.3	6.0
124	A95-405	5.2	5.2	5.1	5.7	6.7	6.0
125	A82-562	5.2	5.7	4.6	5.7	6.0	4.3
126	JDSB-93	5.2	5.4	4.9	5.7	6.3	3.7
127	PST-697	5.2	5.4	4.9	6.7	7.0	4.7
128	A96-729	5.1	5.6	4.6	5.3	5.7	4.3
129	A98-2039	5.1	5.2	5.1	4.0	6.3	5.3
130	Dragon	5.1	5.0	5.3	4.7	6.7	5.0
131	A96-293	5.1	5.5	4.7	4.7	6.7	4.3
132	A97-408	5.1	5.7	4.6	5.0	7.0	5.0
133	A93-453	5.1	5.0	5.2	3.7	8.0	6.3
134	A96-451	5.1	4.9	5.3	6.7	8.3	5.0
135	America	5.1	5.0	5.1	4.3	6.0	5.7
136	Blue Moon	5.1	4.8	5.3	4.3	5.7	6.3
137	Aspen	5.1	5.2	4.9	5.0	6.7	4.7
138	Glade	5.1	4.9	5.2	3.3	4.7	5.3
139	A97-895	5.1	5.0	5.1	5.7	6.3	5.0
140	H94-321	5.0	5.1	5.0	5.3	5.0	4.3
141	A96-305	5.0	5.2	4.9	3.7	5.7	5.0
142	Chicago	5.0	5.0	5.1	4.7	5.3	5.0
143	Rugby	5.0	5.3	4.7	5.3	6.7	3.7
144	Samoa	5.0	4.9	5.1	6.3	7.0	5.0
145	Brunswick	5.0	4.9	5.1	4.7	6.3	5.7
146	Explorer	5.0	4.9	5.2	4.0	6.3	6.7
147	A96-407	5.0	4.8	5.2	4.7	7.0	6.3
148	Alpine	5.0	4.9	5.1	3.7	7.0	6.0
149	H94-374	5.0	5.3	4.7	6.0	6.7	5.0
150	A97-1297	5.0	5.3	4.6	5.3	7.0	5.0

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
151	A96-386	5.0	4.4	5.5	5.3	8.3	6.7
152	Cabernet	4.9	5.0	4.8	3.0	4.3	6.3
153	A89-391	4.9	5.4	4.4	4.3	5.3	5.0
154	Blacksburg	4.9	4.4	5.4	5.0	6.7	6.0
155	A96-332	4.9	5.3	4.4	4.3	6.7	4.3
156	SCR-320	4.9	5.0	4.7	4.0	6.3	5.3
157	Unique	4.9	4.6	5.1	3.0	7.0	6.3
158	Kelly	4.9	4.8	4.9	3.0	6.7	5.3
159	Cesar	4.8	4.6	5.1	3.3	6.7	5.3
160	Eclipse	4.8	4.8	4.8	5.7	6.7	4.3
161	Liberty	4.8	5.0	4.7	5.3	5.7	5.0
162	NuStar	4.8	4.6	5.0	3.3	5.0	6.0
163	Pp8	4.8	5.2	4.4	3.3	5.0	5.7
164	Serene	4.8	5.0	4.5	4.7	5.0	5.3
165	Cheri	4.8	4.7	4.8	3.7	5.7	5.7
166	97-SCEC- 219	4.8	4.5	5.1	2.7	6.3	6.7
167	Optigreen	4.8	5.2	4.3	3.7	5.7	5.7
168	JC91L2	4.8	4.9	4.6	4.3	7.0	4.3
169	Ram I	4.7	5.1	4.3	5.0	3.7	6.7
170	NuBlue	4.7	4.8	4.7	4.3	7.3	3.7
171	Dellwood	4.7	4.9	4.5	4.7	4.7	4.7
172	SCR-282	4.7	4.8	4.6	6.3	7.0	3.7
173	Touchdown	4.7	4.7	4.7	4.0	7.0	5.0
174	CVB 19111	4.5	4.0	5.0	3.7	7.3	5.3
175	CVB 19863	4.5	4.4	4.6	1.3	5.3	6.3
176	Eagleton	4.5	4.1	4.8	3.0	3.0	6.7
177	A91-635	4.4	4.5	4.4	6.0	5.3	4.7
178	A91-702	4.4	4.6	4.2	5.3	5.0	3.7
179	Baron	4.4	4.3	4.5	2.7	5.7	4.3
180	Crest	4.4	4.2	4.6	2.7	6.3	5.0

Table 6 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Winter Appearance ² March 2000	Leaf Spot ³ May 2000	Moisture Stress ⁴ July 2000
		1999- 2000 Avg.	1999 Avg.	2000 Avg.			
181	Bel 21	4.4	4.3	4.4	4.0	4.3	4.3
182	A91-703	4.4	4.7	4.1	5.3	5.7	3.3
183	97-SCEC-196	4.4	4.8	3.9	3.7	3.3	4.0
184	Blue Chip	4.3	4.3	4.3	2.7	5.3	5.3
185	CAS-NA	4.3	3.9	4.6	3.3	5.3	4.7
186	97-CNC-254	4.3	4.5	4.0	6.0	2.3	5.0
187	CVB 17921	4.2	3.5	4.8	2.3	5.3	5.3
188	AG K982	4.1	4.4	3.9	5.0	3.3	5.0
189	Classic	4.1	4.2	4.0	4.7	4.3	4.3
190	AG-K984	4.1	4.1	4.1	4.3	6.3	4.7
191	Huntsville	4.0	4.4	3.6	4.7	2.7	4.0
192	94AN-8	4.0	3.8	4.2	1.7	5.3	4.3
193	Miracle	4.0	3.7	4.3	4.3	3.7	5.7
194	Nassau	4.0	3.9	4.1	4.0	4.0	4.7
195	Freedom	4.0	3.7	4.2	5.3	7.3	4.3
196	CPA-421	3.8	4.0	3.6	4.7	5.7	4.0
197	Muddy PK	3.8	3.9	3.6	4.7	2.0	5.3
198	AG K986	3.8	4.3	3.2	4.3	1.3	4.3
199	Sidekick	3.7	3.6	3.8	4.7	4.3	4.7
200	Roselawn	3.5	3.7	3.4	1.3	1.0	4.3
201	S-21	3.5	3.7	3.3	2.3	1.0	4.7
202	AG K985	3.5	3.6	3.3	5.7	2.7	4.0
203	AG K987	3.4	3.9	2.9	2.7	1.0	4.0
204	95AN-26	3.3	3.4	3.2	3.3	3.3	3.7
205	95AN-24	3.2	3.6	2.8	3.3	3.0	3.0
206	Reveille (TBx KB hybrid)	2.9	2.5	3.3	2.7	4.3	3.7
	LSD at 5% =	0.8	0.9	0.8	1.2	1.2	1.3

¹9 = best turf quality²9 = best winter appearance, based on winter color retention, active growth, and dark green color³9 = least leaf spot disease⁴9 = least moisture stress

Table 7. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1998 at Pittstown, NJ. (Medium-Low Maintenance Test.)

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000	Color ³ June 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.		
1	Moonlight	7.1	6.4	7.7	4.0	8.7
2	Liberator	6.3	6.0	6.6	1.7	7.0
3	Midnight	6.3	5.9	6.7	2.0	6.3
4	A95-1064	6.3	6.2	6.3	3.3	6.3
5	A96-715	6.2	6.1	6.4	3.3	7.0
6	Boutique	6.1	6.0	6.2	5.7	6.7
7	Blackstone	6.1	6.1	6.1	4.0	5.7
8	Langara	6.1	5.7	6.4	5.3	6.0
9	A96-407	6.0	5.8	6.2	6.3	7.3
10	A95-418	5.8	5.6	6.1	4.3	6.7
11	A96-415	5.8	5.9	5.6	3.7	7.0
12	A96-386	5.8	5.7	5.8	4.3	6.7
13	Pick 113-3	5.8	6.0	5.5	4.0	5.3
14	A96-402	5.7	5.8	5.6	4.0	5.3
15	Blacksburg	5.6	5.1	6.1	5.0	6.7
16	A96-408	5.6	5.3	5.9	7.0	6.7
17	A96-423	5.6	5.6	5.6	5.0	5.3
18	H94-707	5.6	5.7	5.4	3.7	6.0
19	A90-287	5.6	5.7	5.4	5.0	5.3
20	Princeton P-105	5.5	5.6	5.5	2.0	6.3
21	A93-417	5.5	5.3	5.8	3.3	5.0
22	A96-361	5.5	5.2	5.8	5.7	5.3
23	Wildwood	5.5	5.6	5.4	2.3	6.0
24	Bordeaux	5.5	5.6	5.3	5.3	5.0
25	H92-558	5.5	5.3	5.6	4.3	5.3
26	A93-453	5.5	5.3	5.6	4.3	5.0
27	A96-396	5.4	5.7	5.1	4.0	5.7
28	A96-766	5.4	5.2	5.6	2.3	5.7
29	A96-451	5.4	5.5	5.4	5.3	5.3
30	H94-232	5.4	5.6	5.2	6.7	4.0

Table 7 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000	Color ³ June 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.		
31	A96-351	5.4	5.3	5.5	4.0	4.7
32	A95-410	5.4	5.7	5.1	5.7	4.0
33	A96-337	5.4	5.3	5.5	4.7	4.0
34	H92-557	5.4	5.3	5.5	3.0	4.3
35	A96-324	5.4	5.4	5.3	4.7	4.7
36	A93-330	5.4	5.4	5.3	5.7	5.0
37	Cabernet	5.4	5.3	5.4	4.7	5.3
38	A82-204	5.3	5.5	5.2	5.3	7.7
39	A96-739	5.3	5.1	5.5	5.0	5.7
40	A96-763	5.3	5.5	5.1	4.3	6.3
41	A93-201	5.3	5.5	5.1	7.3	3.3
42	A96-360	5.3	5.2	5.4	5.7	4.7
43	Alpine	5.3	5.2	5.3	2.7	5.0
44	A96-481	5.2	5.2	5.2	4.7	4.3
45	A84-413	5.2	5.1	5.3	4.3	4.0
46	Indigo	5.2	5.2	5.2	3.3	3.7
47	A96-416	5.2	5.3	5.0	4.3	4.0
48	Explorer	5.1	5.2	5.1	2.3	4.0
49	A96-348	5.1	5.2	5.1	3.3	4.0
50	Unique	5.1	5.4	4.9	3.7	3.7
51	A96-418	5.1	5.0	5.2	3.3	4.3
52	A96-427	5.1	5.3	4.9	4.7	3.7
53	A97-307	5.1	5.1	5.1	4.7	6.0
54	A96-424	5.1	5.2	4.9	3.3	4.3
55	A91-703	5.1	4.8	5.3	4.7	5.7
56	A91-702	5.0	4.8	5.2	5.0	5.7
57	A88-309	4.9	5.0	4.8	5.0	3.7
58	Shamrock	4.9	5.0	4.8	5.7	3.7
59	A96-332	4.9	5.3	4.5	4.3	4.3
60	H94-225	4.8	4.7	4.9	4.7	3.7

Table 7 (continued).

	Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000	Color ³ June 2000
		1999-2000 Avg.	1999 Avg.	2000 Avg.		
61	Dragon	4.8	5.2	4.4	5.0	2.3
62	SROKBG 6	4.8	4.9	4.7	5.0	3.0
63	A93-200	4.8	4.9	4.6	5.3	3.3
64	SCEC-204	4.8	4.5	5.0	3.3	5.3
65	SCR-320	4.7	5.1	4.4	5.3	3.3
66	Touchdown	4.7	4.8	4.7	5.7	3.3
67	SCEL-219	4.7	4.8	4.6	1.7	3.3
68	Samoa	4.7	4.9	4.4	4.3	4.0
69	SCEC-196	4.6	5.0	4.3	5.0	3.0
70	SROKBG 8	4.6	5.0	4.2	4.0	3.3
71	CNC-254	4.6	5.0	4.2	4.7	4.0
72	Roselawn	4.6	4.7	4.4	1.7	3.3
73	America	4.4	4.7	4.1	4.0	3.0
74	Dellwood	4.3	4.5	4.2	4.3	3.7
75	A97-30	4.3	4.7	3.9	3.7	3.7
76	SCR-282	4.2	4.5	3.9	5.0	2.0
77	Liberty	4.1	4.4	3.8	4.0	2.0
78	CAS-NA	4.1	3.6	4.5	5.0	2.7
79	SCEC-183	4.0	4.4	3.6	2.3	3.0
80	Pp 8	4.0	4.4	3.5	3.7	2.7
81	Sidekick	3.9	3.9	3.9	5.3	3.0
82	95AN-24	3.6	3.4	3.8	3.7	3.3
83	94AN-8	3.6	3.5	3.7	2.3	3.0
84	Bel 21	3.6	4.3	2.8	2.3	3.0
85	SCEC-157	3.6	3.9	3.2	3.0	2.7
86	Reveille (TB x KB hybrid)	3.5	2.8	4.2	5.0	3.3
87	SCEC-194	3.3	3.9	2.7	4.0	1.7
88	SROKBG 7	2.2	2.4	1.9	5.7	1.0
89	Tekapo (Orchardgrass)	1.8	2.1	1.5	5.7	1.0

Table 7 (continued).

Cultivar or Selection	-----Turf Quality ¹ -----			Spring Green-up ² April 2000	Color ³ June 2000
	1999-2000 Avg.	1999 Avg.	2000 Avg.		
LSD at 5% =	0.6	0.5	0.9	2.0	1.1

¹9 = best turf quality

²9 = earliest spring green-up

³9 = dark green color

Table 8. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1999 at North Brunswick, NJ.

	Cultivar or Selection	Turf Quality ¹	Establishment ²	<i>Poa annua</i> (%)
		2000 Avg.	Oct. 1999 Avg.	April 2000 Avg.
1	Impact	7.1	6.3	24.3
2	Langara	7.0	6.0	16.7
3	NuGlade	6.9	6.7	14.3
4	RugbyII	6.9	7.0	15.3
5	Award	6.8	6.7	20.0
6	C-74	6.7	6.3	21.7
7	Absolute	6.7	5.7	21.7
8	A97-1409	6.6	6.7	15.3
9	Midnight	6.5	6.0	23.3
10	Blue Moon	6.4	6.3	22.3
11	Princeton P-105	6.4	6.0	23.3
12	A97-1336	6.4	5.7	17.7
13	A96-298	6.3	6.3	12.7
14	H94-288	6.3	7.0	13.3
15	A95-1936	6.2	6.3	16.0
16	A97-1655	6.2	6.7	11.0
17	A96-293	6.2	5.7	10.7
18	A97-1337	6.2	6.7	12.3
19	Rambo	6.2	6.7	26.7
20	Eagleton	6.1	6.7	16.0
21	A96-323	6.0	6.0	24.3
22	A97-1263	6.0	6.3	17.7
23	H94-707	5.9	6.0	21.7
24	A95-1701	5.9	5.7	20.0
25	A97-1436	5.9	6.0	31.7
26	A97-287	5.9	4.0	25.0
27	A97-284	5.9	3.3	21.7
28	A96-453	5.9	6.0	16.7
29	A96-451	5.8	5.7	21.7
30	A96-409	5.8	6.7	18.3

Table 8 (continued).

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Oct. 1999 Avg.	<i>Poa annua</i> (%) April 2000 Avg.
31	A97-1573	5.8	5.0	13.3
32	Moonlight	5.8	5.7	23.3
33	RSP	5.7	6.7	15.0
34	A97-1292	5.7	5.7	18.3
35	A97-1327	5.6	6.3	31.7
36	A97-260	5.6	5.0	21.0
37	H92-558	5.6	7.0	15.0
38	A97-1362	5.6	5.3	16.7
39	A93-506	5.6	4.7	20.0
40	A93-453	5.6	6.0	20.0
41	A96-418	5.6	5.7	21.0
42	America	5.6	6.3	18.3
43	A97-2094	5.5	5.0	21.7
44	H94-293	5.5	6.0	15.0
45	A96-408	5.5	7.0	25.0
46	A97-1304	5.5	6.0	31.7
47	A97-1573	5.5	4.3	32.3
48	A97-1567	5.5	5.0	16.7
49	A97-1275	5.4	6.7	20.0
50	A97-458	5.4	6.0	16.7
51	A97-1566	5.4	3.3	25.0
52	A95-1009	5.4	6.0	18.3
53	H94-467	5.4	6.0	23.3
54	A96-707	5.4	6.3	16.7
55	H94-455	5.4	4.7	33.3
56	A95-418	5.4	5.3	20.0
57	A97-1601	5.4	6.3	24.0
58	A93-413	5.4	5.0	21.7
59	NuStar	5.4	6.7	33.3
60	A97-1523	5.3	4.3	26.7
61	A97-1715	5.3	6.0	23.3
62	A96-494	5.3	5.7	20.0
63	A96-259	5.3	6.0	26.0
64	A97-1330	5.3	5.7	25.0
65	H94-232	5.3	7.0	18.3

Table 8 (continued).

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Oct. 1999 Avg.	<i>Poa annua</i> (%) April 2000 Avg.
66	A96-415	5.3	4.7	26.0
67	Total Eclipse	5.3	6.7	20.0
68	A97-1446	5.2	6.0	28.3
69	A96-427	5.2	5.7	30.0
70	A96-270	5.2	4.7	33.3
71	A96-324	5.2	6.3	13.3
72	A97-1323	5.1	5.7	19.0
73	A97-1466	5.1	5.7	20.0
74	A97-1271	5.1	5.7	21.7
75	A96-1353	5.1	5.7	28.3
76	A82-204	5.1	7.0	13.0
77	SRX 2394	5.1	6.7	14.3
78	A96-340	5.1	5.3	19.0
79	Boutique	5.0	6.0	16.7
80	A97-2332	5.0	5.7	18.3
81	A97-1333	5.0	6.0	28.3
82	H94-690	4.9	4.7	14.3
83	A97-1271	4.9	5.3	17.0
84	Blackstone	4.9	6.3	18.3
85	Voyager	4.9	6.3	15.0
86	Georgetown	4.9	6.7	21.7
87	Suffolk	4.8	7.0	14.0
88	A96-739	4.8	6.3	23.3
89	A97-1579	4.8	5.0	20.0
90	A97-1613	4.7	6.3	25.0
91	A97-493	4.7	6.0	30.0
92	H94-461	4.7	5.0	31.7
93	A97-945	4.6	5.7	18.3
94	A96-402	4.6	6.7	26.7
95	A96-304	4.6	5.3	25.0
96	A97-1449	4.6	4.7	20.0
97	A95-1055	4.5	3.7	36.7
98	A97-1510	4.5	5.3	36.7
99	A96-303	4.4	5.3	16.0
100	A97-1297	4.4	6.0	15.0

Table 8 (continued).

Cultivar or Selection		Turf Quality ¹ 2000 Avg.	Establishment ² Oct. 1999 Avg.	<i>Poa annua</i> (%) April 2000 Avg.
101	Limousine	4.4	6.0	28.3
102	A97-1343	4.4	4.7	21.7
103	A97-944	4.3	5.3	16.7
104	Nassau	4.3	5.3	25.0
105	A96-256	4.3	3.3	25.0
106	A95-1043	4.2	6.7	26.7
107	A97-890	4.2	6.7	12.7
108	A96-332	4.2	6.7	21.0
109	A97-1416	4.2	4.7	18.3
110	A97-1244	4.2	6.0	30.0
111	A97-1433	4.1	5.7	28.3
112	Blue Chip	4.1	5.7	21.7
113	A97-1766	4.1	3.7	38.3
114	A97-1258	4.1	5.7	23.3
115	Dragon	3.9	6.0	18.3
116	NuBlue	3.5	6.3	25.0
117	Huntsville	3.0	6.7	26.7
LSD at 5% =		0.9	1.3	15.5

¹9 = best turf quality²9 = best establishment

Table 9. Performance of Kentucky bluegrass cultivars and selections in a turf trial seeded in September 1999 at Adelphia, NJ.

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Sept. 1999 Avg.	Leaf spot ³ May 2000 Avg.
1	A97-1409	6.7	6.0	8.7
2	A97-435	6.6	6.0	6.7
3	A96-337	6.6	7.3	7.0
4	A97-1573	6.5	5.3	7.3
5	A96-707	6.4	6.0	7.3
6	A96-494	6.4	6.0	9.0
7	A97-1336	6.4	5.7	8.0
8	Sonoma	6.4	6.0	7.0
9	Boutique	6.4	5.7	8.0
10	A97-1757	6.4	6.0	6.7
11	A95-418	6.4	5.0	8.0
12	Impact	6.4	6.0	8.0
13	A97-410	6.4	8.0	6.7
14	Moonlight	6.4	6.0	8.3
15	A96-323	6.4	6.3	7.7
16	Award	6.4	6.3	7.7
17	NuGlade	6.3	5.3	7.7
18	A96-453	6.3	5.7	6.7
19	A97-1432	6.2	4.0	8.0
20	H94-288	6.2	7.7	6.7
21	A96-298	6.2	5.7	7.7
22	Blue Moon	6.2	7.0	7.7
23	A97-458	6.2	7.0	5.7
24	H94-455	6.2	4.0	6.7
25	A96-415	6.2	5.3	8.3
26	A97-1468	6.2	5.3	6.3
27	A97-1362	6.2	6.3	7.3
28	A96-324	6.1	7.0	7.3
29	H94-550	6.1	5.3	8.0
30	A97-1327	6.1	6.0	6.0

Table 9 (continued).

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Sept. 1999 Avg.	Leaf spot ³ May 2000 Avg.
31	A97-1446	6.1	5.3	8.0
32	Absolute	6.1	6.0	7.7
33	A97-1400	6.1	5.0	7.7
34	A97-1471	6.1	6.0	7.0
35	A96-293	6.1	6.7	9.0
36	Langara	6.1	6.3	6.7
37	A96-479	6.1	6.7	8.0
38	A97-1523	6.0	4.7	8.0
39	A97-1333	6.0	6.0	7.3
40	A96-427	6.0	6.3	7.0
41	A96-451	6.0	5.7	8.3
42	A97-1275	6.0	6.7	6.7
43	A97-1263	6.0	6.3	8.0
44	Rambo	6.0	6.3	7.3
45	A96-418	5.9	6.0	6.3
46	A97-1271	5.9	5.7	7.7
47	A97-1655	5.9	6.7	6.7
48	Bordeaux	5.9	3.7	7.0
49	A96-357	5.9	3.7	7.7
50	A96-304	5.9	4.7	8.3
51	A97-1304	5.9	6.3	7.3
52	A97-1465	5.9	6.7	7.3
53	A96-259	5.9	6.3	7.3
54	Rugby II	5.9	5.7	7.3
55	A95-1936	5.9	6.3	5.7
56	A97-2086	5.9	6.7	7.7
57	A96-408	5.8	6.3	7.7
58	A97-287	5.8	4.3	7.0
59	A96-1353	5.8	5.7	7.7
60	Princeton P-105	5.8	5.3	7.3
61	A96-270	5.8	3.0	7.3
62	A95-1009	5.8	5.0	8.0
63	A93-505	5.8	4.7	7.7
64	A97-1436	5.8	5.3	6.7
65	K 981/983	5.8	5.7	8.0

Table 9 (continued).

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Sept. 1999 Avg.	Leaf spot ³ May 2000 Avg.
66	A82-204	5.8	7.0	7.0
67	Midnight	5.8	6.0	7.3
68	A97-1613	5.7	5.3	6.3
69	A97-1326	5.7	5.3	7.0
70	A97-284	5.7	3.0	8.0
71	A96-409	5.7	5.3	7.7
72	A97-1567	5.7	5.3	7.0
73	A96-1201	5.7	6.3	6.3
74	A97-1330	5.7	4.7	7.0
75	A97-1299	5.7	5.7	7.0
76	A97-1715	5.7	5.0	6.3
77	A96-332	5.7	6.3	6.3
78	A95-1055	5.7	3.7	7.7
79	A97-1579	5.7	5.3	7.7
80	Explorer	5.7	5.0	8.0
81	A97-493	5.6	6.0	6.0
82	A97-1292	5.6	5.7	6.0
83	Pick 113-3	5.6	2.0	6.7
84	Pp H 6351	5.6	4.3	8.0
85	A93-417	5.6	5.3	8.0
86	A97-1337	5.6	6.7	7.3
87	C-74	5.6	6.7	7.3
88	H94-707	5.6	6.0	7.7
89	SRX 2284	5.6	5.3	7.3
90	A97-1518	5.6	4.7	6.7
91	H94-293	5.5	6.3	7.3
92	A97-1439	5.5	5.0	7.7
93	A97-2094	5.5	5.0	7.3
94	Total Eclipse	5.5	5.7	8.0
95	A93-200	5.5	6.0	5.3
96	Pp 8388	5.5	7.3	6.3
97	H94-232	5.5	5.7	6.3
98	A97-1466	5.5	6.0	7.0
99	A97-890	5.5	6.0	5.7
100	A97-1566	5.5	4.3	8.3

Table 9 (continued).

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Sept. 1999 Avg.	Leaf spot ³ May 2000 Avg.
101	A95-1701	5.4	6.3	6.0
102	America	5.4	6.0	7.3
103	A97-1433	5.4	5.7	7.0
104	A96-402	5.4	5.3	7.7
105	NuBlue	5.4	5.0	6.7
106	Indigo	5.4	6.3	7.7
107	SRX 2394	5.4	5.7	7.7
108	SCR-320	5.4	3.0	6.3
109	A97-408	5.4	7.0	6.7
110	Blackstone	5.4	6.0	7.0
111	A97-1766	5.4	4.7	5.7
112	Suffolk	5.4	6.3	6.3
113	A97-1510	5.3	4.7	7.7
114	A96-340	5.3	5.3	6.0
115	A97-1449	5.3	4.7	7.3
116	Yvette	5.3	6.7	7.0
117	A93-453	5.3	5.3	7.3
118	A95-1043	5.3	6.0	7.3
119	A97-1343	5.3	5.0	6.3
120	A97-1244	5.3	5.0	7.0
121	A97-945	5.3	5.0	5.7
122	Pp H 7875	5.2	4.0	7.0
123	Barcelona	5.2	6.0	7.7
124	NuStar	5.2	6.3	6.7
125	JC 91 L2	5.2	4.7	5.7
126	H92-577	5.2	5.7	7.7
127	A97-1258	5.2	5.3	6.7
128	A97-1276	5.2	5.0	7.3
129	A97-2306	5.2	5.3	7.0
130	H92-558	5.2	5.3	8.0
131	Virginia	5.2	7.7	6.0
132	A94-976	5.1	7.0	6.7
133	A97-1492	5.1	4.7	5.3
134	Blacksburg	5.1	4.3	6.7
135	Leonie	5.1	7.0	5.7

Table 9 (continued).

	Cultivar or Selection	Turf Quality ¹ 2000 Avg.	Establishment ² Sept. 1999 Avg.	Leaf spot ³ May 2000 Avg.
136	Limousine	5.1	6.0	6.3
137	Brooklawn	5.1	6.7	5.3
138	Barblue	5.1	6.0	5.7
139	Baronie	5.1	5.7	5.7
140	Bartitia	5.0	6.7	6.7
141	Pp H 6370	5.0	4.0	5.0
142	Shamrock	5.0	5.3	6.7
143	Wildwood	5.0	6.0	7.7
144	Georgetown	5.0	6.3	6.0
145	Baron	4.9	6.0	7.0
146	Eagleton	4.9	6.0	6.0
147	H94-461	4.9	4.7	7.3
148	Nassau	4.9	6.0	5.3
149	Brunswick	4.8	5.0	6.7
150	A97-1294	4.8	5.3	6.3
151	Festina	4.8	7.3	7.3
152	Blue Chip	4.8	5.3	6.7
153	A96-739	4.8	4.7	6.7
154	Pp H 7832	4.7	4.0	6.0
155	Voyager	4.7	7.3	5.0
156	SCEC-183	4.7	4.0	5.0
157	A97-1297	4.7	5.7	7.3
158	Touchdown	4.7	6.0	5.7
159	Barzan	4.5	4.7	6.7
160	RSP	4.5	7.0	5.7
161	Pp H 6819	4.5	7.0	5.3
162	CVB 17921	4.4	5.7	4.7
163	Pp H 7759	4.4	3.0	6.7
164	K 994	4.4	5.0	5.7
165	Pp H 7777	4.4	3.3	6.0
166	Pp H 7921	4.2	3.7	6.0
167	Pp H 7907	4.2	3.7	5.0
168	K 993	4.1	6.0	5.0
169	Sabine	4.0	5.7	7.3
170	K 984	4.0	4.7	6.7

Table 9 (continued).

Cultivar or Selection		Turf Quality ¹ 2000 Avg.	Establishment ² Sept. 1999 Avg.	Leaf spot ³ May 2000 Avg.
171	Pp H 7776	3.9	4.0	5.3
172	Huntsville	3.9	5.7	2.0
173	SCEC-194	3.7	4.3	2.3
174	K 985	3.6	4.7	3.3
175	P 226	3.4	4.3	4.3
176	H86-1248	3.3	3.3	4.0
177	P 247	3.2	5.7	3.3
178	P 243	2.9	5.7	2.7
179	P 242	2.7	5.0	3.0
180	P 236	2.0	6.0	2.3
LSD at 5% =		0.8	1.4	1.0

¹9 = best turf quality

²9 = best establishment

³9 = least leaf spot disease

Table 10. Performance of Kentucky bluegrass and Texas bluegrass hybrid cultivars and selections in a field trial established in September 1999 at Adelphia, NJ. (Low-maintenance Test.)

	Cultivar or Selection	Species ¹	Turf Quality ² 2000 Avg.	Establishment ³ 1999
1	Charisma	KBG	5.8	7.0
2	SCEC-157	KBG	5.7	5.0
3	Virginia	KBG	5.5	7.3
4	SCR-282	KBG	5.5	5.0
5	Barkoel	Koel	5.4	5.0
6	A99LM-18	TB hyb	5.4	5.0
7	95AN-10	KBG	5.4	4.7
8	Pp 8388	KBG	5.4	6.3
9	A99LM-15	TB hyb	5.3	6.3
10	A99LM-23	TB hyb	5.2	3.3
11	Pick 113-3	KBG	5.2	3.3
12	A99LM-7	TB hyb	5.2	6.7
13	A93-417	KBG	5.1	4.3
14	Touchdown	KBG	5.1	6.0
15	A99LM-12	TB hyb	5.1	6.3
16	A99LM-17	TB hyb	5.1	7.0
17	Bartitia	KBG	5.1	5.7
18	A99LM-22	TB hyb	5.0	3.3
19	SCR-320	KBG	5.0	5.0
20	A91-100	KBG	5.0	6.3
21	Barzan	KBG	5.0	5.0
22	A99LM-16	TB hyb	4.8	5.7
23	SCEC-183	KBG	4.8	6.0
24	Indigo	KBG	4.7	5.3
25	Baronie	KBG	4.7	6.0
26	A99LM-8	TB hyb	4.6	7.0
27	SCEC-194	KBG	4.6	6.3
28	SCEC-196	KBG	4.6	5.3
29	Yvette	KBG	4.6	6.0
30	Leonie	KBG	4.6	7.0

Table 10 (continued).

	Cultivar or Selection	Species ¹	Turf Quality ²	
			2000 Avg.	Establishment ³ 1999
31	Baron	KBG	4.6	6.0
32	A99LM-6	TB hyb	4.6	7.3
33	A99LM-9	TB hyb	4.6	7.0
34	America	KBG	4.6	5.0
35	CVB 19111	KBG	4.6	4.7
36	Eagleton	KBG	4.5	5.7
37	SCEC-204	KBG	4.5	5.3
38	Barcelona	KBG	4.5	5.7
39	Pp H6819	KBG	4.4	7.0
40	Explorer	KBG	4.4	5.3
41	A89-352	KBG	4.4	6.0
42	P 226	KBG	4.3	5.7
43	Festina	KBG	4.3	5.7
44	P 247	KBG	4.2	6.0
45	CVB 17921	KBG	4.2	4.3
46	A93-453	KBG	4.1	4.7
47	A99LM-19	TB hyb	4.1	4.0
48	P 243	KBG	4.0	6.0
49	Barblue	KBG	4.0	5.3
50	Dragon	KBG	4.0	5.5
51	CPA-421	KBG	4.0	2.3
52	CAS-NA	KBG	3.9	4.3
53	Pp 8	KBG	3.9	5.0
54	94AN-8	KBG	3.9	3.7
55	A99LM-2	TB hyb	3.8	3.3
56	JC 91 L2	KBG	3.8	5.3
57	A99LM-4	TB hyb	3.7	2.7
58	P 242	KBG	3.7	5.0
59	A99LM-20	TB hyb	3.7	3.3
60	A99LM-26	TB hyb	3.6	3.3
61	95AN-24	KBG	3.4	3.7
62	Reveille	TB hyb	3.4	2.7
63	A99LM-21	TB hyb	3.4	4.3
64	P 236	KBG	3.4	6.0
65	<i>Poa compressa</i>	<i>Poa comp</i>	3.4	8.0

Table 10 (continued).

	Cultivar or Selection	Species ¹	Turf Quality ²	
			2000 Avg.	Establishment ³ 1999
66	A99LM-10	TB hyb	3.3	2.0
67	Sabine	KBG	3.3	4.3
68	A99LM-25	TB hyb	3.3	3.7
69	A99LM-11	TB hyb	3.2	3.0
70	A96-418	KBG	3.2	5.0
71	A99LM-13	TB hyb	3.2	3.0
72	A99LM-5	TB hyb	3.1	3.7
73	A99LM-1	TB hyb	3.0	3.0
74	A99LM-3	TB hyb	2.9	3.0
75	95AN-1	KBG	2.7	3.3
76	A99LM-27	TB hyb	2.1	1.3
77	A99LM-24	TB hyb	1.4	1.3
LSD at 5% =			1.2	1.1

¹Species abbreviations:

KBG= Kentucky bluegrass

Koel= Koeleria

Poa comp= *Poa compressa*

TB hyb= Texas bluegrass x Kentucky bluegrass hybrid

²9 = best turf quality

³9 = best establishment

Table 11. Yearly Nitrogen (N) applied and mowing height (Ht) on Kentucky bluegrass tests established at Adelphia, North Brunswick, and Pittstown, NJ.

	1996		1997		1998		1999		2000	
	N ¹	Ht ²	N	Ht	N	Ht	N	Ht	N	Ht
Table 1 (1995 Adelphia)	4.9	1.5	5.2	1.5	3.6	1.5	2.8	1.5	2.1	1.5
Table 2 (1996 North Brunswick)			3.7	1.5	2.3	1.5	2.8	1.5	2.5	1.5
Table 3 (1996 Adelphia)			4.3	1.5	4.5	1.5	2.8	1.5	2.1	1.5
Table 4 (1997 Adelphia)					2.0	1.5	3.5	1.5	2.1	1.5
Table 5 (1998 North Brunswick)							1.9	1.5	2.4	1.5
Table 6 (1998 Adelphia)							2.8	1.5	2.8	1.5
Table 7 (1998 Pittstown)							1.3	2.5	1.5	2.5
Table 8 (1999 North Brunswick)									3.4	1.5
Table 9 (1999 Adelphia)									3.8	1.5
Table 10 (1999 Adelphia)									1.7	2.0

¹Annual N applied (lb/1000 ft²)

²Mowing height in inches